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OM protein - protein search, using sw model

Run on: August 20, 2003, 13:23:03 ; Search time 15.2099 Seconds
(without alignments)
489.597 Million cell updates/sec

Title: US-09-855-266A-1
Perfect score: 1000
Sequence: 1 MVTFSHYSSLHWFLLLLLLLL.....SSVSNPRNWLFLMLIVFCI 176

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/1aa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/1aa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/1aa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/1aa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/1aa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1000	100.0	176	US-09-411-722-1	Sequence 1, Appli
2	858	85.8	148	US-09-411-722-2	Sequence 2, Appli
3	206.5	20.6	355	US-08-292-549-6	Sequence 6, Appli
4	206.5	20.6	355	US-09-006-353A-14	Sequence 14, Appli
5	206.5	20.6	355	US-09-573-986-14	Sequence 14, Appli
6	205.5	20.5	167	US-08-050-319B-2	Sequence 2, Appli
7	205.5	20.5	167	US-08-050-319B-57	Sequence 57, Appli
8	205.5	20.5	167	US-08-465-982-2	Sequence 57, Appli
9	205.5	20.5	167	US-08-465-982-57	Sequence 57, Appli
10	205.5	20.5	197	US-08-828-683A-21	Sequence 21, Appli
11	205.5	20.5	280	US-08-974-022-46	Sequence 46, Appli
12	205.5	20.5	280	US-08-795-445A-46	Sequence 46, Appli
13	205.5	20.5	280	US-08-795-447A-46	Sequence 46, Appli
14	205.5	20.5	280	US-08-974-186-46	Sequence 46, Appli
15	205.5	20.5	280	US-08-795-446B-46	Sequence 46, Appli
16	205.5	20.5	280	US-08-706-945D-132	Sequence 132, App
17	205.5	20.5	455	US-08-050-319B-25	Sequence 25, Appli
18	205.5	20.5	455	US-08-321-668-2	Sequence 2, Appli
19	205.5	20.5	455	US-08-837-941-2	Sequence 2, Appli
20	205.5	20.5	455	US-08-126-016-2	Sequence 2, Appli
21	205.5	20.5	455	US-08-465-982-25	Sequence 25, Appli
22	205.5	20.5	455	US-08-815-469-5	Sequence 5, Appli
23	205.5	20.5	455	US-09-006-353A-3	Sequence 3, Appli
24	205.5	20.5	455	US-09-527-236A-5	Sequence 5, Appli
25	205.5	20.5	455	US-08-054-970-2	Sequence 2, Appli
26	205.5	20.5	455	US-09-565-918-4	Sequence 4, Appli
27	205.5	20.5	455	US-09-573-986-3	Sequence 3, Appli

28	205.5	20.5	455	4	US-09-027-287-3	Sequence 3, Appli
29	205.5	20.5	455	4	US-09-252-656B-3	Sequence 3, Appli
30	205.5	20.5	455	4	US-08-406-824A-4	Sequence 4, Appli
31	205	20.5	327	3	US-09-290-640-66	Sequence 66, Appli
32	204.5	20.4	199	1	US-08-050-319B-48	Sequence 48, Appli
33	204.5	20.4	199	1	US-08-465-982-48	Sequence 48, Appli
34	204.5	20.4	285	3	US-08-804-166-6	Sequence 6, Appli
35	204.5	20.4	285	3	US-08-910-991-6	Sequence 6, Appli
36	202.5	20.2	349	3	US-09-006-353A-13	Sequence 13, Appli
37	202.5	20.2	349	3	US-09-573-986-13	Sequence 13, Appli
38	200.5	20.1	139	4	US-08-706-945D-129	Sequence 129, App
39	200.5	20.1	153	2	US-08-219-237B-4	Sequence 4, Appli
40	200.5	20.1	153	3	US-08-477-347-12	Sequence 12, Appli
41	200.5	20.1	153	3	US-08-476-862-3	Sequence 3, Appli
42	200.5	20.1	153	3	US-08-468-560C-4	Sequence 4, Appli
43	200.5	20.1	153	4	US-09-800-909-3	Sequence 3, Appli
44	200.5	20.1	154	4	US-08-828-683A-12	Sequence 12, Appli
45	200.5	20.1	161	4	US-09-326-394-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-09-411-722-1
; Sequence 1, Application US/09411722
; Patent No. 6271366
; GENERAL INFORMATION:
; APPLICANT: Kimura, Naoki
; APPLICANT: Toyoshima, Tomoko
; TITLE OF INVENTION: NOVEL SECRETORY MEMBRANE PROTEIN
; FILE REFERENCE: 06501/040001
; CURRENT APPLICATION NUMBER: US/09/411,722
; CURRENT FILING DATE: 1999-10-01
; PRIOR FILING DATE: PCT/JP98/01511
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: JP 9/099653
; PRIOR FILING DATE: 1997-04-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 176
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-411-722-1

Query Match	100.0%	Score 1000;	DB 3;	Length 176;
Best Local Similarity	100.0%	Pred. No. 2.7e-85;		
Matches 176;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	MVTFSHYSSLHWFLLLLLLLLLFLPVIFAMPESYSFNCPDGEYQSDVCCKTCPSGTFVK	60	
Db	1	MVTFSHYSSLHWFLLLLLLLLLFLPVIFAMPESYSFNCPDGEYQSDVCCKTCPSGTFVK	60	
QY	61	APCKIPHTQGCRCHEGTFGTGKDNGLHDCSTCDKDNVADCSATSDRKCECQIGL	120	
Db	61	APCKIPHTQGCRCHEGTFGTGKDNGLHDCSTCDKDNVADCSATSDRKCECQIGL	120	
QY	121	YYVDPKFPESCRCPTCKPQIGIPVLQECNSTANTVCCSSVSNPRNWLFLMLIVFCI	176	
Db	121	YYVDPKFPESCRCPTCKPQIGIPVLQECNSTANTVCCSSVSNPRNWLFLMLIVFCI	176	

RESULT 2
US-09-411-722-2
; Sequence 2, Application US/09411722
; Patent No. 6271366
; GENERAL INFORMATION:
; APPLICANT: Kimura, Naoki
; APPLICANT: Toyoshima, Tomoko
; TITLE OF INVENTION: NOVEL SECRETORY MEMBRANE PROTEIN
; FILE REFERENCE: 06501/040001
; CURRENT APPLICATION NUMBER: US/09/411,722

;; CURRENT FILING DATE: 1999-10-01
;; PRIOR APPLICATION NUMBER: PCT/JP98/01511
;; PRIOR FILING DATE: 1998-04-01
;; PRIOR APPLICATION NUMBER: JP 9/099653
;; PRIOR FILING DATE: 1997-04-01
;; NUMBER OF SEQ ID NOS: 12
;; SOFTWARE: FASTSEQ for Windows Version 4.0
;; SEQ ID NO 2
;; LENGTH: 148
;; TYPE: PRT
;; ORGANISM: Mus musculus
;; US-09-411-722-2

Query Match 85.8%; Score 958; DB 3; Length 148;
Best Local Similarity 100.0%; Pred. No. 3e-72;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 29 AMPESYFNCPDGEYQSNVDCCKTCPSGTFVKAPCKIPHTOGQCEKCHPGFTGKDNGLH 88
DB 1 AMPESYFNCPDGEYQSNVDCCKTCPSGTFVKAPCKIPHTOGQCEKCHPGFTGKDNGLH 60
QY 89 DCELCSTCDKDNQNVADCSATSDRKCEQIGLYYDPRFESCRPCTKPCQIPVLOECN 148
DB 61 DCELCSTCDKDNQNVADCSATSDRKCEQIGLYYDPRFESCRPCTKPCQIPVLOECN 120
QY 149 STANTVCSVVSNPRNMLFLMLIVFCI 176
DB 121 STANTVCSVVSNPRNMLFLMLIVFCI 148

RESULT 3
US-08-292-549-6
; Sequence 6, Application US/08292549
; Patent No. 546938
; GENERAL INFORMATION:
; APPLICANT: Smith, Craig A.
; APPLICANT: Goodwin, Raymond G.
; TITLE OF INVENTION: Isolated Viral Protein TNF Antagonists
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunex Corporation
; STREET: 51 University Street
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98101

;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/292,549
;; FILING DATE:
;; CLASSIFICATION: 530
;; PRIOR APPLICATION DATA:
;; PRIOR APPLICATION NUMBER: 07/963,330
;; FILING DATE: 10/19/92
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Perkins, Patricia A.
;; REGISTRATION NUMBER: 34,693
;; REFERENCE/DOCKET NUMBER: 2602-A
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (206) 587-0430
;; TELEFAX: (206) 233-0644
;; INFORMATION FOR SEQ ID NO: 6:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 355 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear

;; MOLECULE TYPE: protein
US-08-292-549-6

Query Match 20.6%; Score 206.5; DB 1; Length 355;
Best Local Similarity 31.1%; Pred. No. 1.4e-11;
Matches 55; Conservative 25; Mismatches 72; Indels 25; Gaps 8;
QY 14 FLLLLLNLFLPV--IFAMPESYFNCPDGEYQSNVDCCKTCPSGTFVKAPC-KIPHTQG 70
DB 4 YLLLLLSCIIIIINSIDITPHEPSNGKCKDNEYKRRHLCLCLSCPPGYASRLCDSKNTNT 63
QY 71 QCEKCHPGFTGKDNGLHDELCSTCDKDNQNVADCSATSDRKCEQIGLYYDPRFESCRPCTKPCQIPVLOECN 129
DB 64 QCTPCASDFTTSRNNHLPACLSNGRCDSNQVETRSCNTTHNRICDCAPG--YYCFLKGSS 122
QY 130 SCRPEC---TKC-----PQIGPVLOEC-----NSTANTV--CSSSVSNPRNML 166
DB 123 GCKACVYSQTKGIGYGVSGHTPTGDVVCSPCGLGTYSHTVSSVDKCEPVPSNTFNFI 179

RESULT 4
US-09-006-353A-14
; Sequence 14, Application US/09006353A
; Patent No. 6261801
; GENERAL INFORMATION:
; APPLICANT: WEI, YING-FEI
; APPLICANT: YU, GUO-LIANG
; APPLICANT: GENTZ, REINER
; APPLICANT: RUBEN, STEVEN
; TITLE OF INVENTION: TUMOR NECROSIS FACTOR RECEPTOR 5
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HUMAN GENOME SCIENCES, INC.
; STREET: 9410 KEY WEST AVENUE
; CITY: ROCKVILLE
; STATE: MD
; COUNTRY: US
; ZIP: 20850

;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/09/006,353A
;; FILING DATE:
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: BROOKES, ANDERS A.
;; REGISTRATION NUMBER: 36,373
;; REFERENCE/DOCKET NUMBER: PF341
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (301) 309-8504
;; TELEFAX: (301) 309-8512
;; INFORMATION FOR SEQ ID NO: 14:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 355 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
US-09-006-353A-14

Query Match 20.6%; Score 206.5; DB 3; Length 355;
Best Local Similarity 31.1%; Pred. No. 1.4e-11;
Matches 55; Conservative 25; Mismatches 72; Indels 25; Gaps 8;
QY 14 FLLLLLNLFLPV--IFAMPESYFNCPDGEYQSNVDCCKTCPSGTFVKAPC-KIPHTQG 70
DB 4 YLLLLLSCIIIIINSIDITPHEPSNGKCKDNEYKRRHLCLCLSCPPGYASRLCDSKNTNT 63
QY 71 QCEKCHPGFTGKDNGLHDELCSTCDKDNQNVADCSATSDRKCEQIGLYYDPRFESCRPCTKPCQIPVLOECN 129
DB 64 QCTPCASDFTTSRNNHLPACLSNGRCDSNQVETRSCNTTHNRICDCAPG--YYCFLKGSS 122
QY 130 SCRPEC---TKC-----PQIGPVLOEC-----NSTANTV--CSSSVSNPRNML 166

Db 123 GCKACVSQTKGIGYVSGHTTGDVVCSPCGLGTYSHTVSSVDKCEPVPSNTFNII 179

RESULT 5

US-09-573-986-14

; Sequence 14, Application US/09573986

; Patent No. 6455040

; GENERAL INFORMATION:

; APPLICANT: Wei, Ying-Fei

; APPLICANT: Ni, Jian

; APPLICANT: Gentz, Reiner

; APPLICANT: Ruben, Steven

; TITLE OF INVENTION: Tumor Necrosis Factor Receptor 5

; FILE REFERENCE: 1488.1280004

; CURRENT APPLICATION NUMBER: US/09/573,986

; CURRENT FILING DATE: 2000-05-18

; NUMBER OF SEQ ID NOS: 27

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 14

; LENGTH: 355

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-573-986-14

Query Match 20.6%; Score 206.5; DB 4; Length 355;

Best Local Similarity 31.1%; Pred. No. 1.4e-11;

Matches 55; Conservative 25; Mismatches 72; Indels 25; Gaps 8;

QY 14 FLLLLLLNLFV--IFAMPESYFNCPDGEYQSNVCKTCPSGTFVAPC-KIPHTQG 70

Db 4 YLLLLLLSCIIINSIDITPHEPSNGKCKDNEYKRHLCLCLSCPPGTYASRICKSKNTNT 63

QY 71 QCEKCHPGTFTKDNGLHDCELCS-TCDDQNNVADCSATSKRCEQIGLYIYDKFPE 129

Db 64 QCTPCASDTFTSRNNHLPACLSGRCDSNQVETRSCTNTHNRICDAFG-YVCFKGS 122

QY 130 SCRPC---TKC-----PQIGPVLOEC-----NSTANTV--CSSSVSNPRNWL 166

Db 123 GCKACVSQTKGIGYVSGHTTGDVVCSPCGLGTYSHTVSSVDKCEPVPSNTFNII 179

RESULT 6

US-08-050-319B-2

; Sequence 2, Application US/08050319B

; Patent No. 5633145

; GENERAL INFORMATION:

; APPLICANT: M.Feldmann, P.W. Gray,

; APPLICANT: M.J.C. Turner, F.M. Brennan

; TITLE OF INVENTION: Modified human TNFalpha (Tumor

; TITLE OF INVENTION: Necrosis Factor alpha) Receptor

; NUMBER OF SEQUENCES: 57

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Reed & Robbins

; STREET: 635 Bryant Street

; CITY: Palo Alto

; STATE: California

; COUNTRY: USA

; ZIP: 94301

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/050,319B

; FILING DATE: 10-May-1993

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Robbins, Roberta L.

; STREET: 635 Bryant Street

; CITY: Palo Alto

; STATE: California

; COUNTRY: USA

; ZIP: 94301

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/050,319B

; FILING DATE: 10-May-1993

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Robbins, Roberta L.

; REGISTRATION NUMBER: 33,208

; REFERENCE/DOCKET NUMBER: 5150-0030

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 617-8999

; TELEFAX: (415) 327-3231

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 167 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-050-319B-2

Query Match 20.5%; Score 205.5; DB 1; Length 167;

Best Local Similarity 31.3%; Pred. No. 7.7e-12;

Matches 52; Conservative 22; Mismatches 75; Indels 17; Gaps 6;

QY 7 VSSLSHWFLLLLLLNLF-----PVIFAMP-----ESYFNCPDGEY---QSNVCKTC 53

Db 3 LSTVPDLLLPLVLELLLVGYPGVLGPHLGRKRDVCPGKVIHPNNSICCTKC 62

QY 54 PSGTFFVAPCKIPHTQGCCKCHPTGTGKDNGLHDCELCSCTCDKQNMV--ADCSATSD 111

Db 63 HKGTLYNDPCPGQDTCRECESSGFTASENHLRHCLSCSKRKEMGOVEISSCTVDRD 122

QY 112 RKCEQIGLY-YDPKFPESCRCPTCKPQGIPIVLOECNSTANTVCS 156

Db 123 TVCGCRKNQYRWYSENLFQCFNCSLCING-TVHLSCQEKQNTVCT 167

RESULT 7

US-08-050-319B-57

; Sequence 57, Application US/08050319B

; Patent No. 5633145

; GENERAL INFORMATION:

; APPLICANT: M.Feldmann, P.W. Gray,

; APPLICANT: M.J.C. Turner, F.M. Brennan

; TITLE OF INVENTION: Modified human TNFalpha (Tumor

; TITLE OF INVENTION: Necrosis Factor alpha) Receptor

; NUMBER OF SEQUENCES: 57

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Reed & Robbins

; STREET: 635 Bryant Street

; CITY: Palo Alto

; STATE: California

; COUNTRY: USA

; ZIP: 94301

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/050,319B

; FILING DATE: 10-May-1993

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Robbins, Roberta L.

; REGISTRATION NUMBER: 33,208

; REFERENCE/DOCKET NUMBER: 5150-0030

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415) 617-8999

; TELEFAX: (415) 327-3231

; INFORMATION FOR SEQ ID NO: 57:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 167 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-050-319B-57

Query Match 20.5%; Score 205.5; DB 1; Length 167;

Best Local Similarity 31.3%; Pred. No. 7.7e-12;

Matches 52; Conservative 22; Mismatches 75; Indels 17; Gaps 6;

QY 7 VSSLSHWFLLLLLLNLF-----PVIFAMP-----ESYFNCPDGEY---QSNVCKTC 53

Db 3 LSTVPDLLPLVLELLVGIYPSGVIGLVPHLGDREKRDVCPQGYIHPQNNISCCCTKC 62
QY 54 PSQTFVKAPCKIPHTQGCCKHPGFTTGKDNGLHDCELCSTCDKQNNV--ADCSATSD 111
Db 63 HKGTLYLNDPCPGQDPTDCECSGSFTASENHLRHCLSCSKCKEMQGVESISCTVD 122
QY 112 KRCQIGLY-YYPDKFPESCRCPTKCPQGIPIVLEQCNSTANTVCS 156
Db 123 TVCGCRKNQYRHYWSENLFQCFNCSLCLNG-TVHLSCQEKQNTVCT 167

RESULT 8

US-08-465-982-2
; Sequence 2, Application US/08465982
; Patent No. 5863786
; GENERAL INFORMATION:
; APPLICANT: M. Feldmann, P.W. Gray,
; M.J.C. Turner, F.M. Brennan
; TITLE OF INVENTION: Modified human TNFalpha (Tumor
; Necrosis Factor alpha) Receptor
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Reed & Robbins
; STREET: 635 Bryant Street
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/465,982
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/050,319
; FILING DATE: 10-May-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Robbins, Roberta L.
; REGISTRATION NUMBER: 33,208
; REFERENCE/DOCKET NUMBER: 5150-0030
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 617-8999
; TELEFAX: (415) 327-3231
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 167 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-465-982-2

Query Match 20.5%; Score 205.5; DB 2; Length 167;
Best Local Similarity 31.3%; Pred. No. 7.7e-12;
Matches 52; Conservative 22; Mismatches 75; Indels 17; Gaps 6;

QY 7 VSSLHWFLLLLNLFL-----PVIFAMP-----ESYFNCPDGEY---QSNVCCCKTC 53
Db 3 LSTVPDLLPLVLELLVGIYPSGVIGLVPHLGDREKRDVCPQGYIHPQNNISCCCTKC 62
QY 54 PSQTFVKAPCKIPHTQGCCKHPGFTTGKDNGLHDCELCSTCDKQNNV--ADCSATSD 111
Db 63 HKGTLYLNDPCPGQDPTDCECSGSFTASENHLRHCLSCSKCKEMQGVESISCTVD 122
QY 112 KRCQIGLY-YYPDKFPESCRCPTKCPQGIPIVLEQCNSTANTVCS 156
Db 123 TVCGCRKNQYRHYWSENLFQCFNCSLCLNG-TVHLSCQEKQNTVCT 167

RESULT 9

US-08-465-982-57
; Sequence 57, Application US/08465982
; Patent No. 5863786
; GENERAL INFORMATION:
; APPLICANT: M. Feldmann, P.W. Gray,
; M.J.C. Turner, F.M. Brennan
; TITLE OF INVENTION: Modified human TNFalpha (Tumor
; Necrosis Factor alpha) Receptor
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Reed & Robbins
; STREET: 635 Bryant Street
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/465,982
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/050,319
; FILING DATE: 10-May-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Robbins, Roberta L.
; REGISTRATION NUMBER: 33,208
; REFERENCE/DOCKET NUMBER: 5150-0030
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 617-8999
; TELEFAX: (415) 327-3231
; INFORMATION FOR SEQ ID NO: 57:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 167 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-465-982-57

Query Match 20.5%; Score 205.5; DB 2; Length 167;
Best Local Similarity 31.3%; Pred. No. 7.7e-12;
Matches 52; Conservative 22; Mismatches 75; Indels 17; Gaps 6;

QY 7 VSSLHWFLLLLNLFL-----PVIFAMP-----ESYFNCPDGEY---QSNVCCCKTC 53
Db 3 LSTVPDLLPLVLELLVGIYPSGVIGLVPHLGDREKRDVCPQGYIHPQNNISCCCTKC 62
QY 54 PSQTFVKAPCKIPHTQGCCKHPGFTTGKDNGLHDCELCSTCDKQNNV--ADCSATSD 111
Db 63 HKGTLYLNDPCPGQDPTDCECSGSFTASENHLRHCLSCSKCKEMQGVESISCTVD 122
QY 112 KRCQIGLY-YYPDKFPESCRCPTKCPQGIPIVLEQCNSTANTVCS 156
Db 123 TVCGCRKNQYRHYWSENLFQCFNCSLCLNG-TVHLSCQEKQNTVCT 167

RESULT 10

US-08-828-683A-21
; Sequence 21, Application US/08828683A
; Patent No. 6469144
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; TITLE OF INVENTION: Apo-2 LI AND Apo-3 POLYPEPTIDES
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Genentech, Inc.
; STREET: 1 DNA Way
; CITY: South San Francisco

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-795-445A-46

Query Match 20.5%; Score 205.5; DB 3; Length 280;

Best Local Similarity 31.3%; Pred. No. 1.4e-11;

Matches 52; Conservative 22; Mismatches 75; Indels 17; Gaps 6;

QY 7 VSSLSHWFLLLLLNLFL-----PVIFAMP-----ESYFNCPCGGEY---QSNVCCCKTC 53

Db 3 LSTVPDLLPLVLELLVGIYPSGVLPHGLDREKRDVCPQGYIHPQNNISCTKTC 62

QY 54 PSGETFVKAPCKIPHTQGCCKCHPTFTGKNGHLHDCCLSTCKDKQNMV--ADCSATSD 111

Db 63 HKGTLYNDPCPGQDTCRECSGFTASENHLRHCLSCSKCRKEMGQVEISSCTVD 122

QY 112 RKCEQIGLY-YDPKFPESCRPCTKCPQGIPLVQECNSTANTVCS 156

Db 123 TVCGCRKNQYRHYWSENLFQCFNCSLCLNG-TVHLSCQEKQNTVCT 167

RESULT 13

US-08-795-447A-46

; Sequence 46, Application US/08795447A

; Patent No. 6284728

; GENERAL INFORMATION:

; APPLICANT: Boyle, William J.

; APPLICANT: Lacey, David L.

; APPLICANT: Calzone, Frank J.

; APPLICANT: Chang, Ming-Shi

; TITLE OF INVENTION: Osteoprotegerin

; NUMBER OF SEQUENCES: 53

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Amgen Inc.

; STREET: One Amgen Center Drive

; CITY: Thousand Oaks

; STATE: California

; COUNTRY: USA

; ZIP: 91362-1789

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/795.447A

; FILING DATE:

; CLASSIFICATION: 514

; ATTORNEY/AGENT INFORMATION:

; NAME: Winter, Robert B.

; REFERENCE/DOCKET NUMBER: A-378D2

; INFORMATION FOR SEQ ID NO: 46:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 280 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-795-447A-46

Query Match

Best Local Similarity 20.5%; Score 205.5; DB 3; Length 280;

Matches 52; Conservative 22; Mismatches 75; Indels 17; Gaps 6;

QY 7 VSSLSHWFLLLLLNLFL-----PVIFAMP-----ESYFNCPCGGEY---QSNVCCCKTC 53

Db 3 LSTVPDLLPLVLELLVGIYPSGVLPHGLDREKRDVCPQGYIHPQNNISCTKTC 62

QY 54 PSGETFVKAPCKIPHTQGCCKCHPTFTGKNGHLHDCCLSTCKDKQNMV--ADCSATSD 111

Db 63 HKGTLYNDPCPGQDTCRECSGFTASENHLRHCLSCSKCRKEMGQVEISSCTVD 122

QY 112 RKCEQIGLY-YDPKFPESCRPCTKCPQGIPLVQECNSTANTVCS 156

Db 123 TVCGCRKNQYRHYWSENLFQCFNCSLCLNG-TVHLSCQEKQNTVCT 167

RESULT 14

US-08-974-186-46

; Sequence 46, Application US/08974186

; Patent No. 6284740

; GENERAL INFORMATION:

; APPLICANT: Boyle, William J.

; APPLICANT: Lacey, David L.

; APPLICANT: Calzone, Frank J.

; APPLICANT: Chang, Ming-Shi

; TITLE OF INVENTION: OSTEOPROTEGERIN

; NUMBER OF SEQUENCES: 53

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Amgen Inc.

; STREET: 1840 Behavilland Drive

; CITY: Thousand Oaks

; STATE: California

; COUNTRY: USA

; ZIP: 91320-1789

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/974,186

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/577,788

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Winter, Robert B.

; REFERENCE/DOCKET NUMBER: A-378

; INFORMATION FOR SEQ ID NO: 46:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 280 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-974-186-46

Query Match

Best Local Similarity 20.5%; Score 205.5; DB 3; Length 280;

Matches 52; Conservative 22; Mismatches 75; Indels 17; Gaps 6;

QY 7 VSSLSHWFLLLLLNLFL-----PVIFAMP-----ESYFNCPCGGEY---QSNVCCCKTC 53

Db 3 LSTVPDLLPLVLELLVGIYPSGVLPHGLDREKRDVCPQGYIHPQNNISCTKTC 62

QY 54 PSGETFVKAPCKIPHTQGCCKCHPTFTGKNGHLHDCCLSTCKDKQNMV--ADCSATSD 111

Db 63 HKGTLYNDPCPGQDTCRECSGFTASENHLRHCLSCSKCRKEMGQVEISSCTVD 122

QY 112 RKCEQIGLY-YDPKFPESCRPCTKCPQGIPLVQECNSTANTVCS 156

Db 123 TVCGCRKNQYRHYWSENLFQCFNCSLCLNG-TVHLSCQEKQNTVCT 167

RESULT 15

US-08-795-446B-46

; Sequence 46, Application US/08795446B

; Patent No. 6288032

; GENERAL INFORMATION:

; APPLICANT: Boyle, William J.

; APPLICANT: Lacey, David L.

; APPLICANT: Calzone, Frank J.

; APPLICANT: Chang, Ming-Shi

; TITLE OF INVENTION: OSTEOPROTEGERIN

Search completed: August 20, 2003, 13:25:38
Job time : 16.2099 secs

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OM protein - protein search, using sw model

Run on: August 20, 2003, 13:24:38 ; Search time 39.6543 Seconds
(without alignments)
585.693 Million cell updates/sec

Title: US-09-855-266A-1

Perfect score: 1000

Sequence: 1 MVTFSVSSLSHWFLLLLL.....SSVSNPRNWLFLMLIVFCI 176

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 497079 seqs, 131961718 residues

Total number of hits satisfying chosen parameters: 497079

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_AA:*

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10: /cgn2_6/ptodata/1/pubpaa/US09B_PUBCOMB.pap.*
11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pap.*
12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pap.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pap.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pap.*
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17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pap.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1000	100.0	176	10	US-09-855-266A-1
2	1000	100.0	176	15	US-10-193-616-8
3	917	91.7	396	15	US-10-193-616-14
4	858	85.8	148	10	US-09-855-266A-2
5	668	66.8	117	15	US-10-193-616-6
6	215.5	21.6	247	15	US-10-193-616-10
7	213.5	21.3	162	9	US-09-798-789-13
8	213.5	21.3	162	16	US-10-218-102-423
9	212.5	21.2	123	10	US-09-855-266A-13
10	209	20.9	461	9	US-09-899-422-15
11	209	20.9	461	10	US-09-898-234-15
12	209	20.9	461	10	US-09-899-429A-25
13	209	20.9	461	10	US-09-792-356-15
14	207.5	20.8	162	9	US-09-798-789-15
15	207.5	20.8	162	16	US-10-218-102-425

16	206.5	20.6	355	9	US-09-826-212-14	Sequence 14, Appl
17	206.5	20.6	355	10	US-09-935-727-16	Sequence 16, Appl
18	206.5	20.6	355	15	US-10-186-643-14	Sequence 14, Appl
19	205.5	20.5	197	14	US-10-112-793-21	Sequence 21, Appl
20	205.5	20.5	201	10	US-09-899-429A-14	Sequence 14, Appl
21	205.5	20.5	211	10	US-09-899-429A-8	Sequence 8, Appl
22	205.5	20.5	213	14	US-10-125-062-1	Sequence 1, Appl
23	205.5	20.5	371	9	US-09-899-422-12	Sequence 12, Appl
24	205.5	20.5	371	10	US-09-898-234-12	Sequence 12, Appl
25	205.5	20.5	371	10	US-09-792-356-12	Sequence 12, Appl
26	205.5	20.5	455	9	US-09-826-212-3	Sequence 3, Appl
27	205.5	20.5	455	9	US-09-333-966-5	Sequence 5, Appl
28	205.5	20.5	455	9	US-09-027-287-3	Sequence 3, Appl
29	205.5	20.5	455	9	US-09-874-138-3	Sequence 3, Appl
30	205.5	20.5	455	9	US-09-840-707A-16	Sequence 16, Appl
31	205.5	20.5	455	9	US-09-252-656B-3	Sequence 3, Appl
32	205.5	20.5	455	9	US-09-899-422-2	Sequence 2, Appl
33	205.5	20.5	455	9	US-09-899-422-17	Sequence 17, Appl
34	205.5	20.5	455	10	US-09-935-727-5	Sequence 5, Appl
35	205.5	20.5	455	10	US-09-898-234-2	Sequence 2, Appl
36	205.5	20.5	455	10	US-09-898-234-17	Sequence 17, Appl
37	205.5	20.5	455	10	US-09-756-854-5	Sequence 5, Appl
38	205.5	20.5	455	10	US-09-899-429A-2	Sequence 2, Appl
39	205.5	20.5	455	10	US-09-899-429A-27	Sequence 27, Appl
40	205.5	20.5	455	10	US-09-792-356-2	Sequence 2, Appl
41	205.5	20.5	455	10	US-09-792-356-17	Sequence 17, Appl
42	205.5	20.5	455	11	US-09-314-889-5	Sequence 5, Appl
43	205.5	20.5	455	13	US-10-005-842-3	Sequence 3, Appl
44	205.5	20.5	455	14	US-10-120-397-2	Sequence 2, Appl
45	205.5	20.5	455	14	US-10-041-574-5	Sequence 5, Appl

ALIGNMENTS

RESULT 1

US-09-855-266A-1
; Sequence 1, Application US/09855266A
; Patent No. US20020128435A1
; GENERAL INFORMATION:
; APPLICANT: Kimura, Naoki
; APPLICANT: Toyoshima, Tomoko
; TITLE OF INVENTION: NOVEL SECRETORY MEMBRANE PROTEIN
; FILE REFERENCE: 06501-040002
; CURRENT APPLICATION NUMBER: US/09/855.266A
; CURRENT FILING DATE: 2001-05-14
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: PCT/JP98/01511
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: JP 9/099653
; PRIOR FILING DATE: 1997-04-01
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 176
; TYPE: PRT
; ORGANISM: Mus musculus
; US-09-855-266A-1

Query Match 100.0%; Score 1000; DB 10; Length 176;
Best Local Similarity 100.0%; Pred. No. 31e-85;
Matches 176; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MVTFSVSSLSHWFLLLLLNLPVIFAMPEYSFNCPOGEYSDNVCCRTCPGTFVK 60
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Db 1 MVTFSVSSLSHWFLLLLLNLPVIFAMPEYSFNCPOGEYSDNVCCRTCPGTFVK 60

Qy 61 APCKIPHTQGCCKCHFGFTTGKNDGLHDCSTCDKQDNVADCSATSDRKCEQIGL 120
|||||
Db 61 APCKIPHTQGCCKCHFGFTTGKNDGLHDCSTCDKQDNVADCSATSDRKCEQIGL 120

Qy 121 YYDPKPFESCRPCTKCPQGIPLVLEQNCSTANTVCCSSVSNPRLNWLFLMLIVFCI 176


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Db 121 YYDPKFPESCRCPTCKPQGPVLOECNSTANTVCSVSNRNWFLMLLIVFCI 176
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RESULT 2
US-10-193-616-8
; Sequence 8, Application US/10193616
; Publication No. US20030096355A1
; GENERAL INFORMATION:
; APPLICANT: Zhang, Ke
; TITLE OF INVENTION: Isolation, Identification, and Characterization of
; TITLE OF INVENTION: ymk25, a novel
; TITLE OF INVENTION: member of the TNF-Receptor Supergene Family
; FILE REFERENCE: 01017/35551A
; CURRENT APPLICATION NUMBER: US/10/193,616
; PRIOR FILING DATE: 2002-07-11
; PRIOR APPLICATION NUMBER: US/09/611,989
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/143,137
; PRIOR FILING DATE: 1999-07-07
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 176
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-193-616-8

Query Match 100.0%; Score 1000; DB 15; Length 176;
Best Local Similarity 100.0%; Pred. No. 3.1e-85;
Matches 176; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MYTFSHVSSLHWFLLLLLLNLFLPVIFAMPESYFNCPCDGEYQSNVDCCKTCPSGTFVK 60
Db 1 MYTFSHVSSLHWFLLLLLLNLFLPVIFAMPESYFNCPCDGEYQSNVDCCKTCPSGTFVK 60

Qy 61 APCKIPHTQGOCEKCHPGTFTGKDNGLHDCCLSTCDKDNVADCSATSDRKCEQIGL 120
Db 61 APCKIPHTQGOCEKCHPGTFTGKDNGLHDCCLSTCDKDNVADCSATSDRKCEQIGL 120

Qy 121 YYDPKFPESCRCPTCKPQGPVLOECNSTANTVCSVSNRNWFLMLLIVFCI 176
Db 121 YYDPKFPESCRCPTCKPQGPVLOECNSTANTVCSVSNRNWFLMLLIVFCI 176

US-10-193-616-14
; Sequence 14, Application US/10193616
; Publication No. US20030096355A1
; GENERAL INFORMATION:
; APPLICANT: Zhang, Ke
; TITLE OF INVENTION: Isolation, Identification, and Characterization of
; TITLE OF INVENTION: ymk25, a novel
; TITLE OF INVENTION: member of the TNF-Receptor Supergene Family
; FILE REFERENCE: 01017/35551A
; CURRENT APPLICATION NUMBER: US/10/193,616
; PRIOR FILING DATE: 2002-07-11
; PRIOR APPLICATION NUMBER: US/09/611,989
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/143,137
; PRIOR FILING DATE: 1999-07-07
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: ymk25-Fc fusion protein
US-10-193-616-14

Query Match 91.7%; Score 917; DB 15; Length 396;
Best Local Similarity 100.0%; Pred. No. 3.6e-77;
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Matches 161; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MYTFSHVSSLHWFLLLLLLNLFLPVIFAMPESYFNCPCDGEYQSNVDCCKTCPSGTFVK 60
Db 1 MYTFSHVSSLHWFLLLLLLNLFLPVIFAMPESYFNCPCDGEYQSNVDCCKTCPSGTFVK 60

Qy 61 APCKIPHTQGOCEKCHPGTFTGKDNGLHDCCLSTCDKDNVADCSATSDRKCEQIGL 120
Db 61 APCKIPHTQGOCEKCHPGTFTGKDNGLHDCCLSTCDKDNVADCSATSDRKCEQIGL 120

Qy 121 YYDPKFPESCRCPTCKPQGPVLOECNSTANTVCSVSNRNWFLMLLIVFCI 161
Db 121 YYDPKFPESCRCPTCKPQGPVLOECNSTANTVCSVSNRNWFLMLLIVFCI 161

RESULT 4
US-09-855-266A-2
; Sequence 2, Application US/09855266A
; Patent No. US20020128439A1
; GENERAL INFORMATION:
; APPLICANT: Kimura, Naoki
; APPLICANT: Toyoshima, Tomoko
; TITLE OF INVENTION: NOVEL SECRETORY MEMBRANE PROTEIN
; FILE REFERENCE: 06501-040002
; CURRENT APPLICATION NUMBER: US/09/855,266A
; PRIOR FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 09/411,722
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: PCT/JP98/01511
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: JP 9/099653
; PRIOR FILING DATE: 1997-04-01
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-855-266A-2

Query Match 85.8%; Score 858; DB 10; Length 148;
Best Local Similarity 100.0%; Pred. No. 3.7e-72;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 29 AMPESYFNCPCDGEYQSNVDCCKTCPSGTFVKAPCKIPHTQGOCEKCHPGTFTGKDNGLH 88
Db 1 AMPESYFNCPCDGEYQSNVDCCKTCPSGTFVKAPCKIPHTQGOCEKCHPGTFTGKDNGLH 60

Qy 89 DCELCSTCDKDNVADCSATSDRKCEQIGLYYYDPKFPESCRCPTCKPQGPVLOECN 148
Db 61 DCELCSTCDKDNVADCSATSDRKCEQIGLYYYDPKFPESCRCPTCKPQGPVLOECN 120

Qy 149 STANTVCSVSNRNWFLMLLIVFCI 176
Db 121 STANTVCSVSNRNWFLMLLIVFCI 148

RESULT 5
US-10-193-616-6
; Sequence 6, Application US/10193616
; Publication No. US20030096355A1
; GENERAL INFORMATION:
; APPLICANT: Zhang, Ke
; TITLE OF INVENTION: Isolation, Identification, and Characterization of
; TITLE OF INVENTION: ymk25, a novel
; TITLE OF INVENTION: member of the TNF-Receptor Supergene Family
; FILE REFERENCE: 01017/35551A
; CURRENT APPLICATION NUMBER: US/10/193,616
; PRIOR FILING DATE: 2002-07-11
; PRIOR APPLICATION NUMBER: US/09/611,989
; PRIOR FILING DATE: 2000-07-07
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: ymk25-Fc fusion protein
US-10-193-616-6
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; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-193-616-6

Query Match 66.8%; Score 668; DB 15; Length 117;
Best Local Similarity 100.0%; Pred. No. 1.2e-54;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MVTFSHYSSLSHWFLLLLLLLNLFPLVIFAMPESYSFNCPCDGEYQSDNVCCKTCPSGTFVK 60
Db 1 MVTFSHYSSLSHWFLLLLLLLNLFPLVIFAMPESYSFNCPCDGEYQSDNVCCKTCPSGTFVK 60
QY 61 APCKIPHTQGCCKCHPGTFTGKDNGLHDCELCSTCKDQNNVADCSATSRKCECQ 117
Db 61 APCKIPHTQGCCKCHPGTFTGKDNGLHDCELCSTCKDQNNVADCSATSRKCECQ 117

RESULT 6
US-10-193-616-10
; Sequence 10, Application US/10193616
; Publication No. US20030096355A1
; GENERAL INFORMATION:
; APPLICANT: Zhang, Ke
; TITLE OF INVENTION: Isolation, Identification, and Characterization of
; TITLE OF INVENTION: ymkz5, a novel
; FILE REFERENCE: 01017/35551A
; CURRENT APPLICATION NUMBER: US/10/193,616
; CURRENT FILING DATE: 2002-07-11
; PRIOR APPLICATION NUMBER: US/09/611,989
; PRIOR FILING DATE: 2000-07-07
; PRIOR FILING DATE: 2000-07-07
; PRIOR FILING DATE: 1999-07-07
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 247
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: TNFR1
US-10-193-616-10

Query Match 21.6%; Score 215.5; DB 15; Length 247;
Best Local Similarity 28.1%; Pred. No. 2.2e-12;
Matches 52; Conservative 23; Mismatches 61; Indels 49; Gaps 7;
QY 38 CPDGEY---QSDNVCCKTCPSGTFVKAPCKIPHTQGCCKCHPGTFTGKDNGLHDCELCS 94
Db 44 CPQGYVHKNNSICCTKCHKGYLVSDCPSGRDTCRECKGTFASQNYLRQCLSK 103
QY 95 TCDKDONMV--ADCSATSRKCEC---QIGLYYDYPKFPESCRCCTKCPQGIPLVQECNS 149
Db 104 TCRKMSQVEISPCQADKIVCGCKENQFORLYSETHF--QCVDPCSPFNG--TYTIPCKE 160
QY 150 TANTVCS-----SSVSNPRN-----WLFLLML 171
Db 161 TQNTVNCNCHAGFFLRESECVPCSHCKKNECKMLCLPPPLANVTNPDQSGTAVLLPLVIL 220
QY 172 IVFCI 176
Db 221 LGLCL 225

RESULT 7
US-09-798-789-13
; Sequence 13, Application US/09798789
; Patent No. US20020009780A1
; GENERAL INFORMATION:

; APPLICANT: Dahiyat, Bassil
; APPLICANT: Fillkov, Anton
; TITLE OF INVENTION: DESIGN AND DISCOVERY OF PROTEIN BASED TNF-ALPHA
; TITLE OF INVENTION: VARIANTS FOR THE TREATMENT OF TNF-ALPHA RELATED
; TITLE OF INVENTION: DISORDERS
; FILE REFERENCE: A-68990-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/798,789
; CURRENT FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: US 60/186,427
; PRIOR FILING DATE: 2000-03-02
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-798-789-13

Query Match 21.3%; Score 213.5; DB 9; Length 162;
Best Local Similarity 35.2%; Pred. No. 2.2e-12;
Matches 44; Conservative 15; Mismatches 59; Indels 7; Gaps 4;
QY 38 CPDGEY---QSDNVCCKTCPSGTFVKAPCKIPHTQGCCKCHPGTFTGKDNGLHDCELCS 94
Db 5 CPQGYVHKNNSICCTKCHKGYLVSDCPSGRDTCRECKGTFASQNYLRQCLSK 64
QY 95 TCDKDONMV--ADCSATSRKCECQIGLY-YDYPKFPESCRCCTKCPQGIPLVQECNS 151
Db 65 QCKKHGQVEISSCTVDRDTCGCRKNQYRHYDHENRFYCFNCSLCLNG--TVHLSQCEKQ 123
QY 152 NTVCS 156
Db 124 NTVCT 128

RESULT 8
US-10-218-102-423
; Sequence 423, Application US/10218102
; Publication No. US20030130827A1
; GENERAL INFORMATION:
; APPLICANT: Bentzien, Joerg
; APPLICANT: Dahiyat, Bassil I.
; APPLICANT: Desjarlais, John R.
; APPLICANT: Hayes, Robert J.
; APPLICANT: Vielmetter, Jost
; TITLE OF INVENTION: Protein Design Automation for Protein Libraries
; FILE REFERENCE: A-67229-11/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/10/218,102
; CURRENT FILING DATE: 2002-08-12
; PRIOR APPLICATION NUMBER: US 09/927,790
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 66/311,545
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: US 60/324,899
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US 60/351,937
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: US 60/352,103
; PRIOR FILING DATE: 2002-01-25
; NUMBER OF SEQ ID NOS: 432
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 423
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic
US-10-218-102-423

Query Match 21.3%; Score 213.5; DB 16; Length 162;
Best Local Similarity 35.2%; Pred. No. 2.2e-12;

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, PRIOR APPLICATION NUMBER: 08/383,676
,
, PRIOR FILING DATE: 1995-02-01
,
, PRIOR APPLICATION NUMBER: 08/153,287
,
, PRIOR FILING DATE: 1993-11-17
,
, PRIOR APPLICATION NUMBER: 07/821,750
,
, PRIOR FILING DATE: 1992-01-02
,
, PRIOR APPLICATION NUMBER: 07/511,430
,
, PRIOR FILING DATE: 1990-04-20
,
, NUMBER OF SEQ ID NOS: 87
,
, SOFTWARE: PatentIn ver. 2.0
,
, SEQ ID NO 15
,
, LENGTH: 461
,
, TYPE: PRT

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; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ratNF-P8

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US-09-899-422-15
; OTHER INFORMATION: Description of Artificial Sequence: rDNA-R6
Query Match          20.9%; Score 209; DB 9; Length 461;
Best Local Similarity 27.4%; Pred. No. 1.8e-11;
Matches 52; Conservative 22; Mismatches 62; Indels 54; Gaps 7;

QY      38 CPDGEY---QSNDVCCKTCPSGTFVRAPCAIPHTQGOCCKCHPCTFTGKDNGLHDCCLCS 94
       || | | : : : ||| : : ||| : : ||| | | : : | | |
Db      44 CPOGKYAHPNKNSICTCKCHKGYLYSDCSPSGOETWCSELSHRGTFPTASQNHVRQCUSCK 103
       || | | : : : ||| : : ||| : : ||| | | : : | | |
QY      95 TCDKD--QNNVADCSATSDRKCEC---QIGLYYYDPKFPEPCSRCPKCPOGIVPLQECNS 149
       || | | : : : ||| : : ||| : : ||| | | : : | | |
Db     104 TCRKEMFQVEISPKADMMDTVCGCKKNQFORYLSETHF--QCVD CSPCFENG-TVTIPCCKE 160
       || | | : : : ||| : : ||| : : ||| | | : : | | |
QY     150 TANTVCS-----SSVSNPNRN-----WL 166
       || | | : : : ||| : : ||| : : ||| | | : : | | |
Db     161 KQNTVCNCHAGFFLSGNECTPCSCHKKNQCEMKLCLEPPVANVTNPQDSGAVILLPIVIFL 220
       || | | : : : ||| : : ||| : : ||| | | : : | | |
QY     167 FLMLLIIVFCI 176
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Db     221 GLCLLFICI 230

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RESUMÉ 11
US-09-898-234-15
; Sequence 15, Application US/09898234
; Patent No. US2002015512A1
; GENERAL INFORMATION:
; APPLICANT: Hauptmann, Rudolph
; APPLICANT: Hammler, Adolph
; APPLICANT: Maurer-Fogy, Ingrid
; APPLICANT: Stratowa, Christian
; TITLE OF INVENTION: TNF Receptors, TNF Binding Proteins and DNAs Coding for
; TITLE OF INVENTION: Them
; FILE REFERENCE: 98,385-1
; CURRENT APPLICATION NUMBER: US/09/898,234
; CURRENT FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: 09/525,998
; PRIOR FILING DATE: 2000-03-15

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; PRIOR FILING DATE: 1993-02-01
; PRIOR APPLICATION NUMBER: 08/153,287
; PRIOR FILING DATE: 1993-11-17
; PRIOR APPLICATION NUMBER: 07/821,750
; PRIOR FILING DATE: 1992-01-02
; PRIOR APPLICATION NUMBER: 07/511,430
; PRIOR FILING DATE: 1990-04-20
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: raTNF-R8
US-09-898-234-15

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 20, 2003, 13:23:03 ; Search time 12.7901 Seconds
(without alignments)
489.597 Million cell updates/sec

Title: US-09-855-266a-2

Perfect score: 858

Sequence: 1 AMPEYSFNCPDGEYQSDV.....SSVSNPRNWLFLMLIVFCI 148

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA.*

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2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*

3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*

4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*

5: /cgn2_6/ptodata/1/iaa/PCFUS_COMB.pep.*

6: /cgn2_6/ptodata/1/iaa/backfiles1.pep.*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	858	100.0	148	3	US-09-411-722-2
2	858	100.0	176	3	US-09-411-722-1
3	205	23.9	327	3	US-09-290-340-66
4	204.5	23.8	285	3	US-08-804-166-6
5	204.5	23.8	285	3	US-08-910-991-6
6	200.5	23.4	139	4	US-08-706-945D-129
7	200.5	23.4	153	2	US-08-219-237B-4
8	200.5	23.4	153	3	US-08-477-347-12
9	200.5	23.4	153	3	US-08-476-862-3
10	200.5	23.4	153	3	US-08-468-560C-4
11	200.5	23.4	153	4	US-09-800-909-3
12	200.5	23.4	154	4	US-08-828-683A-12
13	200.5	23.4	161	4	US-09-326-394-2
14	200.5	23.4	167	1	US-08-050-319B-2
15	200.5	23.4	167	1	US-08-050-319B-57
16	200.5	23.4	167	2	US-08-465-982-2
17	200.5	23.4	167	2	US-08-465-982-57
18	200.5	23.4	197	4	US-08-828-683A-21
19	200.5	23.4	256	3	US-08-804-166-2
20	200.5	23.4	256	3	US-08-910-991-2
21	200.5	23.4	280	3	US-08-974-022-46
22	200.5	23.4	280	3	US-08-795-445A-46
23	200.5	23.4	280	3	US-08-795-447A-46
24	200.5	23.4	280	3	US-08-974-186-46
25	200.5	23.4	280	3	US-08-795-446B-46
26	200.5	23.4	280	4	US-08-706-945D-132
27	200.5	23.4	307	3	US-08-804-166-4

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28 200.5 23.4 307 3 US-08-910-991-4 Sequence 4, Appli
29 200.5 23.4 336 3 US-08-804-166-8 Sequence 8, Appli
30 200.5 23.4 336 3 US-08-910-991-8 Sequence 8, Appli
31 200.5 23.4 349 3 US-09-006-353A-13 Sequence 13, Appli
32 200.5 23.4 349 4 US-09-573-986-13 Sequence 13, Appli
33 200.5 23.4 426 4 US-08-747-562-37 Sequence 37, Appli
34 200.5 23.4 455 1 US-08-050-319B-25 Sequence 25, Appli
35 200.5 23.4 455 1 US-08-321-668-2 Sequence 2, Appli
36 200.5 23.4 455 1 US-08-837-941-2 Sequence 2, Appli
37 200.5 23.4 455 1 US-08-126-016-2 Sequence 2, Appli
38 200.5 23.4 455 2 US-08-465-982-25 Sequence 25, Appli
39 200.5 23.4 455 3 US-08-815-469-5 Sequence 5, Appli
40 200.5 23.4 455 3 US-09-006-353A-3 Sequence 3, Appli
41 200.5 23.4 455 4 US-09-527-236A-5 Sequence 5, Appli
42 200.5 23.4 455 4 US-08-054-970-2 Sequence 2, Appli
43 200.5 23.4 455 4 US-09-565-918-4 Sequence 4, Appli
44 200.5 23.4 455 4 US-09-573-986-3 Sequence 3, Appli
45 200.5 23.4 455 4 US-09-027-287-3 Sequence 3, Appli

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ALIGNMENTS

RESULT 1

US-09-411-722-2

; Sequence 2, Application US/09411722

; Patent No. 6271366

; GENERAL INFORMATION:

; APPLICANT: Kimura, Naoki

; APPLICANT: Toyoshima, Tomoko

; TITLE OF INVENTION: NOVEL SECRETORY MEMBRANE PROTEIN

; FILE REFERENCE: 06501/040001

; CURRENT APPLICATION NUMBER: US/09/411,722

; CURRENT FILING DATE: 1999-10-01

; PRIOR APPLICATION NUMBER: PCT/JP98/01511

; PRIOR FILING DATE: 1998-04-01

; PRIOR FILING DATE: 1997-04-01

; NUMBER OF SEQ ID NOS: 12

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 2

; LENGTH: 148

; TYPE: PRT

; ORGANISM: Mus musculus

US-09-411-722-2

Query Match 100.0%; Score 858; DB 3; Length 148;

Best Local Similarity 100.0%; Pred. No. 1.5e-74;

Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMPEYSFNCPDGEYQSDVCCCKTSPSGTFVVKAPCKIPHTQCCCKCHPGTFTGKDNGLH 60

DB 1 AMPEYSFNCPDGEYQSDVCCCKTSPSGTFVVKAPCKIPHTQCCCKCHPGTFTGKDNGLH 60

QY 61 DCLCSTCDKQNMVADCSATSDRKCCEQIGYYIDPKFPESCRCCTKCPQIGIPVLOECN 120

DB 61 DCLCSTCDKQNMVADCSATSDRKCCEQIGYYIDPKFPESCRCCTKCPQIGIPVLOECN 120

QY 121 STANTVCSYSSVSNPRNWLFLMLIVFCI 148

DB 121 STANTVCSYSSVSNPRNWLFLMLIVFCI 148

RESULT 2

US-09-411-722-1

; Sequence 1, Application US/09411722

; Patent No. 6271366

; GENERAL INFORMATION:

; APPLICANT: Kimura, Naoki

; APPLICANT: Toyoshima, Tomoko

; TITLE OF INVENTION: NOVEL SECRETORY MEMBRANE PROTEIN

; FILE REFERENCE: 06501/040001

; CURRENT APPLICATION NUMBER: US/09/411,722

Matches 42; Conservative 16; Mismatches 60; Indels 7; Gaps 4;

RESULT 8

RESULT 8

RESULT 9
US-08-476-862-3
; Sequence 3, Application US/08476862
; Patent No. 6262239
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; APPLICANT: BIGDA, Jacek

RESULT 10 -
US-08-468-560C-4
; Sequence 4, Application US/08468560C
; Patent No. 6270998
; GENERAL INFORMATION:
; APPLICANT: NAGATA, Shigekazu
; APPLICANT: ITOH, Naoto

db 104 KCRKEMGOVEISSCTVDRDTCGCRKNQYRHYWSENLFQCFNCSLCLNG-TVHLSCQEQ 162

Result No.	Score	Query %		Length	DB	ID	Description
		Match					
1	858	100.0	148	10	US-09-855-266A-2		Sequence 2, Appli
2	858	100.0	176	10	US-09-855-266A-1		Sequence 1, Appli
3	858	100.0	176	15	US-10-193-616-8		Sequence 8, Appli
4	775	90.3	396	15	US-10-193-616-14		Sequence 14, Appl
5	526	61.3	117	15	US-10-193-616-6		Sequence 6, Appli
6	215.5	25.1	247	15	US-10-193-616-10		Sequence 10, Appl
7	213.5	24.9	162	9	US-09-798-789-13		Sequence 13, Appl
8	213.5	24.9	162	16	US-10-218-102-423		Sequence 423, App
9	212.5	24.8	123	10	US-09-855-266A-13		Sequence 13, Appl
10	209	24.4	461	9	US-09-899-422-15		Sequence 15, Appl
11	209	24.4	461	10	US-09-898-234-15		Sequence 15, Appl
12	209	24.4	461	10	US-09-899-429A-25		Sequence 25, Appl
13	209	24.4	461	10	US-09-792-356-15		Sequence 15, Appl
14	207.5	24.2	162	9	US-09-798-789-15		Sequence 15, Appl
15	207.5	24.2	162	16	US-10-218-102-425		Sequence 425, App

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Db 121 STANTVCSSSVSNPRNWLFLMLLVFCI 148
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US-09-855-266A-1
; Sequence 1, Application US/09855266A
; Patent No. US20020128435A1
; GENERAL INFORMATION:
; APPLICANT: Kimura, Naoki
; TITLE OF INVENTION: NOVEL SECRETORY MEMBRANE PROTEIN
; FILE REFERENCE: 06501-040002
; CURRENT APPLICATION NUMBER: US/09/855,266A
; PRIOR FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 09/411,722
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: PCT/JP98/01511
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: JP 9/099653
; PRIOR FILING DATE: 1997-04-01
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 176
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-855-266A-1

Query Match 100.0%; Score 858; DB 10; Length 176;
Best Local Similarity 100.0%; Pred. No. 1.8e-72;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMPESYFNCPDGEYQSDVCKTCPSGTFVKAPCKIPHTQGOCEKCHPGFTFGKDNGLH 60
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Db 29 AMPESYFNCPDGEYQSDVCKTCPSGTFVKAPCKIPHTQGOCEKCHPGFTFGKDNGLH 88
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QY 61 DCELCSTCDKQNMVADCSATSDRKCECQIGLYYYDPKFPESCRCPTKCPQGPVLOECN 120
|||||
Db 89 DCELCSTCDKQNMVADCSATSDRKCECQIGLYYYDPKFPESCRCPTKCPQGPVLOECN 148
|||||
QY 121 STANTVCSSSVSNPRNWLFLMLLVFCI 148
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Db 149 STANTVCSSSVSNPRNWLFLMLLVFCI 176
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RESULT 2
US-10-193-616-1
; Sequence 1, Application US/09855266A
; Patent No. US20020128435A1
; GENERAL INFORMATION:
; APPLICANT: Toyoshima, Tomoko
; TITLE OF INVENTION: NOVEL SECRETORY MEMBRANE PROTEIN
; FILE REFERENCE: 06501-040002
; CURRENT APPLICATION NUMBER: US/09/855,266A
; PRIOR FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 09/411,722
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: PCT/JP98/01511
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: JP 9/099653
; PRIOR FILING DATE: 1997-04-01
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 176
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-193-616-1

Query Match 100.0%; Score 858; DB 10; Length 176;
Best Local Similarity 100.0%; Pred. No. 1.8e-72;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMPESYFNCPDGEYQSDVCKTCPSGTFVKAPCKIPHTQGOCEKCHPGFTFGKDNGLH 60
|||||
Db 29 AMPESYFNCPDGEYQSDVCKTCPSGTFVKAPCKIPHTQGOCEKCHPGFTFGKDNGLH 88
|||||
QY 61 DCELCSTCDKQNMVADCSATSDRKCECQIGLYYYDPKFPESCRCPTKCPQGPVLOECN 120
|||||
Db 89 DCELCSTCDKQNMVADCSATSDRKCECQIGLYYYDPKFPESCRCPTKCPQGPVLOECN 148
|||||
QY 121 STANTVCSSSVSNPRNWLFLMLLVFCI 148
|||||
Db 149 STANTVCSSSVSNPRNWLFLMLLVFCI 176
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RESULT 3
US-10-193-616-8
; Sequence 8, Application US/10193616
; Publication No. US20030096355A1
; GENERAL INFORMATION:
; APPLICANT: Zhang, Ke
; TITLE OF INVENTION: Isolation, Identification, and Characterization of
; TITLE OF INVENTION: ymkz5, a novel
; FILE REFERENCE: 01017/35551A
; CURRENT APPLICATION NUMBER: US/10/193,616
; CURRENT FILING DATE: 2002-07-11
; PRIOR APPLICATION NUMBER: US/09/611,989
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/143,137
; PRIOR FILING DATE: 1999-07-07
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 176
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-193-616-8

Query Match 100.0%; Score 858; DB 15; Length 176;
Best Local Similarity 100.0%; Pred. No. 1.8e-72;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMPESYFNCPDGEYQSDVCKTCPSGTFVKAPCKIPHTQGOCEKCHPGFTFGKDNGLH 60
|||||
Db 29 AMPESYFNCPDGEYQSDVCKTCPSGTFVKAPCKIPHTQGOCEKCHPGFTFGKDNGLH 88
|||||
QY 61 DCELCSTCDKQNMVADCSATSDRKCECQIGLYYYDPKFPESCRCPTKCPQGPVLOECN 120
|||||
Db 89 DCELCSTCDKQNMVADCSATSDRKCECQIGLYYYDPKFPESCRCPTKCPQGPVLOECN 148
|||||
QY 121 STANTVCSSSVSNPRNWLFLMLLVFCI 148
|||||
Db 149 STANTVCSSSVSNPRNWLFLMLLVFCI 176
|||||

RESULT 4
US-10-193-616-14
; Sequence 14, Application US/10193616
; Publication No. US20030096355A1
; GENERAL INFORMATION:
; APPLICANT: Zhang, Ke
; TITLE OF INVENTION: Isolation, Identification, and Characterization of
; TITLE OF INVENTION: ymkz5, a novel
; FILE REFERENCE: 01017/35551A
; CURRENT APPLICATION NUMBER: US/10/193,616
; CURRENT FILING DATE: 2002-07-11
; PRIOR APPLICATION NUMBER: US/09/611,989
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/143,137
; PRIOR FILING DATE: 1999-07-07
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: ymkz5-Fc fusion protein
US-10-193-616-14

Query Match 90.3%; Score 775; DB 15; Length 396;
Best Local Similarity 100.0%; Pred. No. 2.3e-64;
Matches 133; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AMPESYFNCPDGEYQSDVCKTCPSGTFVKAPCKIPHTQGOCEKCHPGFTFGKDNGLH 60
|||||
Db 29 AMPESYFNCPDGEYQSDVCKTCPSGTFVKAPCKIPHTQGOCEKCHPGFTFGKDNGLH 88
|||||
QY 61 DCELCSTCDKQNMVADCSATSDRKCECQIGLYYYDPKFPESCRCPTKCPQGPVLOECN 120
|||||
Db 89 DCELCSTCDKQNMVADCSATSDRKCECQIGLYYYDPKFPESCRCPTKCPQGPVLOECN 148
|||||
QY 121 STANTVCSSSVSN 133
|||||
Db 149 STANTVCSSSVSN 161
|||||

RESULT 5
US-10-193-616-6
; Sequence 6, Application US/10193616
; Publication No. US20030096355A1
; GENERAL INFORMATION:
; APPLICANT: Zhang, Ke
; TITLE OF INVENTION: Isolation, Identification, and Characterization of
; TITLE OF INVENTION: ymkz5, a novel
; FILE REFERENCE: 01017/35551A
; CURRENT APPLICATION NUMBER: US/10/193,616
; CURRENT FILING DATE: 2002-07-11
; PRIOR APPLICATION NUMBER: US/09/611,989
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/143,137
; PRIOR FILING DATE: 1999-07-07
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 176
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-193-616-6

Query Match 100.0%; Score 858; DB 15; Length 176;
Best Local Similarity 100.0%; Pred. No. 1.8e-72;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Query Match      24.4%; Score 209; DB 10; Length 461;
Best Local Similarity 27.4%; Pred. No. 1.2e-11;
Matches 52; Conservative 22; Mismatches 62; Indels 54; Gaps 7;

QY    10 CPDGEY---QSNDVCCKTCPSGTGVFAPCKIPHTGOCCEKHCPGTFTGKDNGLHDCLECS 66
       ||| | : : : : || : : || : : || : : || : : || : : || : : || : : ||
Db     44 CPOGKYAHFNNSICTCTCHKGYILVSDCSPGOETVCSELSHKGTTFTASONHVRCQLSCK 103

QY    67 TCDKDD--QNMMVDCSATSDRKCEC---QIGLYYYDPKFPEPSCRPCTKCPOGIPIVLQBCNS 121
       ||| | : : : : || : : || : : || : : || : : || : : || : : || : : ||
Db     104 TCRKEMFQVEISPCAKDMDTVCGCCKNQFORYLSETHF--QCVDSCSPCFNG-TVTTPCKE 160

QY    122 TANTVCS-----SSVSNPNR-----WL 138
       ||||| : : : : || : : || : : || : : || : : || : : || : : || : : ||
Db     161 KQNTVVCHAGFFLSGNECTPCSCHKKKNOECMKLCPLPPVANVTNPQDSGTAVLLPLVIFL 220

QY    139 FLLMLIVFCI 148
       | : | || ||
Db     221 GICLLFFICI 230

RESULT 12
US-09-899-429A-25
; Sequence 25, Application US/09899429A
; Patent No. US20020169118A1
; GENERAL INFORMATION:
; APPLICANT: Hauptmann, Rudolph
; APPLICANT: Himmler, Adolph
; APPLICANT: Maurer-Fogy, Ingrid
; APPLICANT: Stratowa, Christian
; TITLE OF INVENTION: TNF Receptors, TNF Binding Proteins and DNAs Coding for
; TITLE OF INVENTION: Them
; FILE REFERENCE: 98-385-J
; CURRENT APPLICATION NUMBER: US/09/899,429A
; CURRENT FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: 09/792,356
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 08/477,639
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: 08/383,676
; PRIOR FILING DATE: 1995-02-01
; PRIOR APPLICATION NUMBER: 08/153,287
; PRIOR FILING DATE: 1993-11-17
; PRIOR APPLICATION NUMBER: 07/821,750
; PRIOR FILING DATE: 1992-01-02
; PRIOR APPLICATION NUMBER: 07/511,430
; PRIOR FILING DATE: 1990-04-20
; NUMBER OF SEQ ID NOS: 97
; SOFTWARE: patentIn Ver. 2.0
; SEQ ID NO 25
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ratNF-R8
US-09-899-429A-25

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Best Local Similarity 27.4%; Pred. No. 1.2e-11;
Matches 52; Conservative 22; Mismatches 62; Indels 54; Gaps 7;

QY    10 CPDGEY---QSNDVCCKTCPSGTGVFAPCKIPHTGOCCEKHCPGTFTGKDNGLHDCLECS 66
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Db     44 CPOGKYAHFNNSICTCTCHKGYILVSDCSPGOETVCSELSHKGTTFTASONHVRCQLSCK 103

QY    67 TCDKDD--QNMMVDCSATSDRKCEC---QIGLYYYDPKFPEPSCRPCTKCPOGIPIVLQBCNS 121
       ||| | : : : : || : : || : : || : : || : : || : : || : : || : : ||
Db     104 TCRKEMFQVEISPCAKDMDTVCGCCKNQFORYLSETHF--QCVDSCSPCFNG-TVTTPCKE 160

QY    122 TANTVCS-----SSVSNPNR-----WL 138
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QY 139 FLMLIVFCI 148
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Db 221 GLCLFFICI 230

RESULT 13
US-09-792-356-15
; Sequence 15, Application US/09792356
; Publication No. US20020183485A1
; GENERAL INFORMATION:
; APPLICANT: Hauptmann, Rudolph
; APPLICANT: Himmeler, Adolph
; APPLICANT: Maurer-Fogy, Ingrid
; APPLICANT: Stratowa, Christian.
; TITLE OF INVENTION: TNF Receptors, TNF Binding Proteins and DNAs Coding for
; TITLE OF INVENTION: Them
; FILE REFERENCE: 98,385-G
; CURRENT APPLICATION NUMBER: US/09792,356
; CURRENT FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: 08/477,639
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: 08/383,676
; PRIOR FILING DATE: 1995-02-01
; PRIOR APPLICATION NUMBER: 08/153,287
; PRIOR FILING DATE: 1993-11-17
; PRIOR APPLICATION NUMBER: 07/821,750
; PRIOR FILING DATE: 1992-01-02
; PRIOR APPLICATION NUMBER: 07/511,430
; PRIOR FILING DATE: 1990-04-20
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ratNF-R8
US-09-792-356-15

Query Match 24.4% Score 209; DB 10; Length 461;
Best Local Similarity 27.4%; Pred. No. 1.2e-11;
Matches 52; Conservative 22; Mismatches 62; Indels 54; Gaps 7;

QY 10 CPDGEY---OSNDVCCKTCPSGTFFVKAPCKIPHTQGCERCKHPGTFTGKDNGLHDCGLCS 66
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QY 67 TCDKDK--ONMVADCSATSDRKCEG---QIGLYYYDPKFPESCRCPCGPGIPVLQECNS 121
Db 104 TCRKEMPQVEISPCADMDTAVCGCKNQFORILSETHF--QCVDCCSPCFNG-TVTIPCKE 160
QY 122 TANTVCS-----SSVSNPRN-----WL 138
Db 161 KQNTVNCVCHAGFLFSGNCTPCSHCKKNQECMKLCPVPVANVTNPQDSGTAVLLPLVIFL 220

QY 139 FLMLIVFCI 148
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Db 221 GLCLFFICI 230

RESULT 14
US-09-798-789-15
; Sequence 15, Application US/09798789
; Patent No. US20020009780A1
; GENERAL INFORMATION:
; APPLICANT: Dahiyat, Bassil
; APPLICANT: Filikov, Anton
; TITLE OF INVENTION: DESIGN AND DISCOVERY OF PROTEIN BASED TNF-ALPHA
; TITLE OF INVENTION: VARIANTS FOR THE TREATMENT OF TNF-ALPHA RELATED
; TITLE OF INVENTION: DISORDERS
; FILE REFERENCE: A-68990-1/RET/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09798,789
; CURRENT FILING DATE: 2001-03-02

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Job time : 33.3457 secs

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Search completed: August 20, 2003, 13:36:39
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RESULT 15
US-10-218-102-425
; Sequence 425, Application US/10218102
; Publication NO. US20030130827A1
; GENERAL INFORMATION:
; APPLICANT: Bentzien, Joerg
; APPLICANT: Dahivat, Bassil I.
; APPLICANT: Desjarlais, John R.
; APPLICANT: Hayes, Robert J.
; APPLICANT: Vielmutter, Jost
; TITLE OF INVENTION: Protein Design Automation for Protein Libraries
; FILE REFERENCE: A-67229-11/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/10/218,102
; CURRENT FILING DATE: 2002-08-12

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; AFFILIATION: viemetter, jost
; TITLE OF INVENTION: Protein Design Automation for Protein Libraries
; FILE REFERENCE: A-67229-11/RET/RMS/RMK
; CURRENT APPLICATION NUMBER: US/10/218,102
; CURRENT FILING DATE: 2002-08-12

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	Query Match	24.2%	Score 207.5;	DB 16;	Length 162;
	Best Local Similarity	34.4%;	Pred. No. 5.6e-12;		
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Db	5	CPQKYIHPQNNISCTCTKCHGTYLYNDPGPGQDTCRECESSGFTASENWLRLCLGS	64		
QY	67	TCRDXDNWV--ADCSATSDRKECEQIGLY-YDYPFPESCRPCTKCPQGIPIVLQECNPTA	123		

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - protein search, using frame_plus_n2p model

Run on: August 20, 2003, 13:25:08 ; Search time 25.5 Seconds
(without alignments)
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Perfect score: 2704
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Scoring table: BLOSUM62

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
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Total number of hits satisfying chosen parameters: 657434

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
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-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Issued Patents_AA:*
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6: /cgn2_6/ptodata/1/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1000	31.0	176	3	US-09-411-722-1
2	858	37.0	148	3	US-09-411-722-2
3	207.5	7.7	280	3	US-08-974-022-46
4	207.5	7.7	280	3	US-08-795-445A-46
5	207.5	7.7	280	3	US-08-795-447A-46
6	207.5	7.7	280	3	US-08-974-186-46
7	207.5	7.7	280	3	US-08-795-446B-46
8	207.5	7.7	280	4	US-08-706-945D-132
9	207.5	7.7	455	1	US-08-050-319B-25
10	207.5	7.7	455	1	US-08-321-668-2
11	207.5	7.7	455	1	US-08-837-941-2
12	207.5	7.7	455	2	US-08-126-016-2

13	207.5	7.7	455	2	US-08-465-982-25	Sequence 25, Appl
14	207.5	7.7	455	3	US-08-815-469-5	Sequence 5, Appl
15	207.5	7.7	455	3	US-09-006-353A-3	Sequence 3, Appl
16	207.5	7.7	455	4	US-09-527-236A-5	Sequence 5, Appl
17	207.5	7.7	455	4	US-08-054-970-2	Sequence 2, Appl
18	207.5	7.7	455	4	US-09-565-918-4	Sequence 4, Appl
19	207.5	7.7	455	4	US-09-573-986-3	Sequence 3, Appl
20	207.5	7.7	455	4	US-09-027-287-3	Sequence 3, Appl
21	207.5	7.7	455	4	US-09-252-656B-3	Sequence 3, Appl
22	207.5	7.7	455	4	US-08-406-824A-4	Sequence 4, Appl
23	206.5	7.6	355	1	US-08-292-549-6	Sequence 6, Appl
24	206.5	7.6	355	3	US-09-006-353A-14	Sequence 14, Appl
25	206.5	7.6	355	4	US-09-573-986-14	Sequence 14, Appl
26	205.5	7.6	167	1	US-08-050-319B-2	Sequence 2, Appl
27	205.5	7.6	167	1	US-08-050-319B-57	Sequence 57, Appl
28	205.5	7.6	167	2	US-08-465-982-2	Sequence 2, Appl
29	205.5	7.6	167	2	US-08-465-982-57	Sequence 57, Appl
30	205.5	7.6	197	4	US-08-828-683A-21	Sequence 21, Appl
31	205	7.6	327	3	US-09-290-640-66	Sequence 66, Appl
32	204.5	7.6	199	1	US-08-050-319B-48	Sequence 48, Appl
33	204.5	7.6	199	2	US-08-465-982-48	Sequence 48, Appl
34	204.5	7.6	285	3	US-08-804-166-6	Sequence 6, Appl
35	204.5	7.6	285	3	US-08-910-991-6	Sequence 6, Appl
36	202.5	7.5	349	3	US-09-006-353A-13	Sequence 13, Appl
37	202.5	7.5	349	4	US-09-573-986-13	Sequence 13, Appl
38	202.5	7.5	426	4	US-08-747-562-37	Sequence 37, Appl
39	201	7.4	909	4	US-09-013-895A-4	Sequence 4, Appl
40	201	7.4	909	4	US-09-448-868-4	Sequence 4, Appl
41	200.5	7.4	139	4	US-08-706-945D-129	Sequence 129, App
42	200.5	7.4	153	2	US-08-219-237B-4	Sequence 4, Appl
43	200.5	7.4	153	3	US-08-477-347-12	Sequence 12, Appl
44	200.5	7.4	153	3	US-08-476-862-3	Sequence 3, Appl
45	200.5	7.4	153	3	US-08-468-560C-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1

US-09-411-722-1
; Sequence 1, Application US/09411722
; Patent No. 6271366
; GENERAL INFORMATION:
; APPLICANT: Kimura, Naoki
; APPLICANT: Toyoshima, Tomoko
; TITLE OF INVENTION: NOVEL SECRETORY MEMBRANE PROTEIN
; FILE REFERENCE: 06501/040001
; CURRENT APPLICATION NUMBER: US/09/411,722
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: PCT/JP98/01511
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: JP 9/099653
; PRIOR FILING DATE: 1997-04-01
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 176
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-411-722-1

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Pred. No.: 6,91e-107 Length: 176
Score: 1000.00 Matches: 176
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 36.98% Indels: 0
DB: 3 Gaps: 0

US-09-855-266A-3 (1-1509) x US-09-411-722-1 (1-176)

QY 12 ATGTTACCTTCACGCCACGCTCCAGTCTGAGTCACGTGGTTCCTGCTGCTGCTG 71
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; Sequence 46, Application US/08795447A
; Patent No. 6284728
; GENERAL INFORMATION:
; APPLICANT: Boyle, William J.
; APPLICANT: Lacey, David L.
; APPLICANT: Calzone, Frank J.
; APPLICANT: Chang, Ming-Shi
; TITLE OF INVENTION: Osteoprotegerin
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Angen Inc.
; STREET: One Angen Center Drive
; CITY: Thousand Oaks
; STATE: California
; COUNTRY: USA
; ZIP: 91362-1789
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/795,447A
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Winter, Robert B.
; REFERENCE/DOCKET NUMBER: A-37802
; INFORMATION FOR SEQ ID NO: 46:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 280 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-795-447A-46

Alignment Scores:
Pred. No.: 4.74e-15 Length: 280
Score: 207.50 Matches: 65
Percent Similarity: 42.13% Conservative: 26
Best Local Similarity: 30.09% Mismatches: 95
Query Match: 7.67% Indels: 30
DB: 3 Gaps: 7

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Db 3 LeuSerThrValProAspLeuLeuLeuProLeuValLeuLeuLeuValGlyIle 22
QY 84 -----CCGGTAATATTTGCTATGCT-----GAATCATACCTCTTC 119
Db 23 TyrProSerGlyValIleGlyLeuValProHisLeuGlyAspArgGluLysArgAspSer 42
QY 120 AACTGTCCTCCGATGTGATAC-----CAGTCTAATGATGCTGTGTCGAGACCTGT 170
Db 43 ValCysProGlnGlyLysTyrIleHisProGlnAsnAsnSerIleCysCysThrLysCys 62
QY 171 CCCTCAGTACATTTGTCAAGCGCCCTGCAAAATCCCCCATCTCAAGGACAATGTGAG 230
Db 63 HisLysGlyThrTyrLeuTyrAsnAspCysProGlyProGlyGlnAspThrAspCysArg 82
QY 231 AAGTTCACCCAGCAATTCACAGGGAAGATATGCTGCTCATGATGTGTAATTTGC 290
Db 83 GluCysGluSerGlySerPheThrAlaSerGluAsnHisLeuArgHisCysLeuSerCys 102
QY 291 TCCACCTGTGATAAGACACAGAATATGTG-----GCTGACTGTTCTGCCACCACTGAC 344
Db 103 SerLysCysArgLysGluMetGlyClnValGluIleSerSerCysThrValAspArgAsp 122
QY 345 CGGAATGCGAGTGCCCAATAGTCTTTAC---TACTATGACCCCAAAATTTCCGGAATCA 401
Db 3 LeuSerThrValProAspLeuLeuLeuProLeuValLeuLeuLeuValGlyIle 22

; Sequence 46, Application US/08795447A
; Patent No. 6284728
; GENERAL INFORMATION:
; APPLICANT: Boyle, William J.
; APPLICANT: Lacey, David L.
; APPLICANT: Calzone, Frank J.
; APPLICANT: Chang, Ming-Shi
; TITLE OF INVENTION: Osteoprotegerin
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Angen Inc.
; STREET: One Angen Center Drive
; CITY: Thousand Oaks
; STATE: California
; COUNTRY: USA
; ZIP: 91362-1789
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/795,447A
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Winter, Robert B.
; REFERENCE/DOCKET NUMBER: A-37802
; INFORMATION FOR SEQ ID NO: 46:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 280 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-795-447A-46

Alignment Scores:
Pred. No.: 4.74e-15 Length: 280
Score: 207.50 Matches: 65
Percent Similarity: 42.13% Conservative: 26
Best Local Similarity: 30.09% Mismatches: 95
Query Match: 7.67% Indels: 30
DB: 3 Gaps: 7

US-09-855-266A-3 (1-1509) x US-08-795-447A-46 (1-280)
QY 30 GTCTCCAGTCGAGTCACTGTTCTCTGCTGCTGCTGAATCTGTTCTTG----- 83
Db 3 LeuSerThrValProAspLeuLeuLeuProLeuValLeuLeuLeuValGlyIle 22
QY 84 -----CCGGTAATATTTGCTATGCT-----GAATCATACCTCTTC 119
Db 23 TyrProSerGlyValIleGlyLeuValProHisLeuGlyAspArgGluLysArgAspSer 42
QY 120 AACTGTCCTCCGATGTGATAC-----CAGTCTAATGATGCTGTGTCGAGACCTGT 170
Db 43 ValCysProGlnGlyLysTyrIleHisProGlnAsnAsnSerIleCysCysThrLysCys 62
QY 171 CCCTCAGTACATTTGTCAAGCGCCCTGCAAAATCCCCCATCTCAAGGACAATGTGAG 230
Db 63 HisLysGlyThrTyrLeuTyrAsnAspCysProGlyProGlyGlnAspThrAspCysArg 82
QY 231 AAGTTCACCCAGCAATTCACAGGGAAGATATGCTGCTCATGATGTGTAATTTGC 290
Db 83 GluCysGluSerGlySerPheThrAlaSerGluAsnHisLeuArgHisCysLeuSerCys 102
QY 291 TCCACCTGTGATAAGACACAGAATATGTG-----GCTGACTGTTCTGCCACCACTGAC 344
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Db 3 LeuSerThrValProAspLeuLeuLeuProLeuValLeuLeuLeuValGlyIle 22

; Sequence 46, Application US/08795447A
; Patent No. 6284728
; GENERAL INFORMATION:
; APPLICANT: Boyle, William J.
; APPLICANT: Lacey, David L.
; APPLICANT: Calzone, Frank J.
; APPLICANT: Chang, Ming-Shi
; TITLE OF INVENTION: Osteoprotegerin
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Angen Inc.
; STREET: One Angen Center Drive
; CITY: Thousand Oaks
; STATE: California
; COUNTRY: USA
; ZIP: 91362-1789
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/795,447A
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Winter, Robert B.
; REFERENCE/DOCKET NUMBER: A-37802
; INFORMATION FOR SEQ ID NO: 46:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 280 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-795-447A-46

Alignment Scores:
Pred. No.: 4.74e-15 Length: 280
Score: 207.50 Matches: 65
Percent Similarity: 42.13% Conservative: 26
Best Local Similarity: 30.09% Mismatches: 95
Query Match: 7.67% Indels: 30
DB: 3 Gaps: 7

US-09-855-266A-3 (1-1509) x US-08-795-447A-46 (1-280)
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QY 84 -----CCGGTAATATTTGCTATGCT-----GAATCATACCTCTTC 119
Db 23 TyrProSerGlyValIleGlyLeuValProHisLeuGlyAspArgGluLysArgAspSer 42
QY 120 AACTGTCCTCCGATGTGATAC-----CAGTCTAATGATGCTGTGTCGAGACCTGT 170
Db 43 ValCysProGlnGlyLysTyrIleHisProGlnAsnAsnSerIleCysCysThrLysCys 62
QY 171 CCCTCAGTACATTTGTCAAGCGCCCTGCAAAATCCCCCATCTCAAGGACAATGTGAG 230
Db 63 HisLysGlyThrTyrLeuTyrAsnAspCysProGlyProGlyGlnAspThrAspCysArg 82
QY 231 AAGTTCACCCAGCAATTCACAGGGAAGATATGCTGCTCATGATGTGTAATTTGC 290
Db 83 GluCysGluSerGlySerPheThrAlaSerGluAsnHisLeuArgHisCysLeuSerCys 102
QY 291 TCCACCTGTGATAAGACACAGAATATGTG-----GCTGACTGTTCTGCCACCACTGAC 344
Db 103 SerLysCysArgLysGluMetGlyClnValGluIleSerSerCysThrValAspArgAsp 122
QY 345 CGGAATGCGAGTGCCCAATAGTCTTTAC---TACTATGACCCCAAAATTTCCGGAATCA 401
Db 3 LeuSerThrValProAspLeuLeuLeuProLeuValLeuLeuLeuValGlyIle 22
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QY 171 CCTCAGGTACATTTGCTCAAGCGCCCTGCAAAATCCCCATCTCAAGCAATGTGAG 230
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QY 231 AAGTGTCCACAGGACATTCACAGGAAAGATAATGGCTGATGATTGTGAACCTTGC 290
Db 83 GluCysGluSerGlySerPheThrAlaSerGluAsnHisLeuArgHisCysLeuSerCys 102
QY 291 TCCACCTGTGTAAGAACCAAGATATGGTG-----GCTGACTGTCTTCTGCCACCAAGTGAC 344
Db 103 SerLysCysArgLysGluMetGlyGlnValGluLeuSerSerCysThrValAspArgAsp 122
QY 345 CGGAATGCGAGTGCCTCAATAGCTCTTAC-----TACTATGACCCCAAAATTTCCGGAATCA 401
Db 123 ThrValCysGlyCysArgLysAsnGlnTyrArgHisTyrTrpSerGluAsnLeuPheGln 142
QY 402 TCCGCGCCCATGACCAAGTGTCCCAAGGAATCCCTGCTCCTCCAGGAATCACTCCACA 461
Db 143 CysPheAsnSerLeuCysLeuAsnGly---ThrValHisLeuSerCysGlnGluLys 161
QY 462 GCTAACACTGTGTGCAGTTCA-----TCT 485
Db 162 GlnAsnThrValCysThrCysHisAlaGlyPhePheLeuArgGluAsnGluCysValSer 181
QY 486 GTTTCAAATCCAGAACTGGCTGCTCTACTGATGCTAATGCTCTTCTGATCTGAAGA 545
Db 182 CysSerAsnCysLysLysSerLeuGluCysThrLysLeuCysLeuProGlnIle-GluAs 201
QY 546 AGATAAGGCTCTACAGATGGTGTCTGCTAGCTTCCCTTTATTCTG 591
Db 201 nValLysGlyThrGluAspSerGlyThrThrValLeuLeuProLeu 216

RESULT 13

US-08-465-982-25
; Sequence 25, Application US/08465982
; Patent No. 5863786
; GENERAL INFORMATION:
; APPLICANT: M.Feldmann, P.W. Gray,
; APPLICANT: M.J.C. Turner, F.M. Brennan
; TITLE OF INVENTION: Modified human TNFalpha (Tumor
; TITLE OF INVENTION: Necrosis Factor alpha) Receptor
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Reed & Robbins
; STREET: 635 Bryant Street
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/465,982
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/050,319
; FILING DATE: 10-May-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Robbins, Roberta L.
; REGISTRATION NUMBER: 33,208
; REFERENCE/DOCKET NUMBER: 5150-0030
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 617-8999
; TELEFAX: (415) 327-3231
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 455 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

; MOLECULE TYPE: protein
US-08-465-982-25

Alignment Scores:

Pred. No.: 6,15e-15 Length: 455
Score: 207.50 Matches: 65
Percent Similarity: 42.13% Conservative: 26
Best Local Similarity: 30.09% Mismatches: 95
Query Match: 7.67% Indels: 30
DB: 2 Gaps: 7

US-09-855-266A-3 (1-1509) x US-08-465-982-25 (1-455)

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Db 3 LeuSerThrValProAspLeuLeuLeuProLeuValLeuLeuLeuLeuValGlyIle 22
QY 84 -----CCGTAATATTTGCTATGCT-----GAATCATACTCTCTTC 119
Db 23 TyrProSerGlyValIleGlyLeuValProHisLeuGlyAspArgGluLysArgAspSer 42
QY 120 AACTGTCCCGATGTGAATAC-----CAGTCTAATGATGCTGTGTGCAAGACCTGT 170
Db 43 ValCysProGlnGlyLysTyrIleHisProGlnAsnAsnSerIleCysCysThrLysCys 62
QY 171 CCCTCAGGTACATTTGTCAAGCGCCCTGCAAAATCCCCATCTACTCAAGGACAATGTGAG 230
Db 63 HisLysGlyThrTyrLeuTyrAsnAspCysProGlyProGlyGlnAspThrAspCysArg 82
QY 231 AAGTGTCCCGAGAACATTCACAGGGAAGATAATGCCCTGCTGATGATGAACTTGC 290
Db 83 GluCysGluSerGlySerPheThrAlaSerGluAsnHisLeuArgHisCysLeuSerCys 102
QY 291 TCCACCTGTGATAAGACCAAGATATGGTG-----GCTGACTGTCTTCTGCCACCAAGTGAC 344
Db 103 SerLysCysArgLysGluMetGlyGlnValGluLeuSerSerCysThrValAspArgAsp 122
QY 345 CGGAATCCGAGTGCCTCAATAGCTCTTAC-----TACTATGACCCCAAAATTTCCGGAATCA 401
Db 123 ThrValCysGlyCysArgLysAsnGlnTyrArgHisTyrTrpSerGluAsnLeuPheGln 142
QY 402 TCCGCGCCCATGACCAAGTGTCCCAAGGAATCCCTGCTCCTCCAGGAATGCAACTCCACA 461
Db 143 CysPheAsnCysSerLeuCysLeuAsnGly---ThrValHisLeuSerCysGlnGluLys 161
QY 462 GCTAACACTGTGTGCAGTTCA-----TCT 485
Db 162 GlnAsnThrValCysThrCysHisAlaGlyPhePheLeuArgGluAsnGluCysValSer 181
QY 486 GTTTCAAATCCAGAACTGGCTGCTCTACTGATGCTAATGCTCTTCTGATCTGAAGA 545
Db 182 CysSerAsnCysLysLysSerLeuGluCysThrLysLeuCysLeuProGlnIle-GluAs 201
QY 546 AGATAAGGTTCTACAGATGGTGTGCTGCTAGCTTCCCTTTATTCTG 591
Db 201 nValLysGlyThrGluAspSerGlyThrThrValLeuLeuProLeu 216

RESULT 14

US-08-815-469-5
; Sequence 5, Application US/08815469
; Patent No. 6153402
; GENERAL INFORMATION:
; APPLICANT: Yu, Guo-Liang
; APPLICANT: Ni, Jian
; APPLICANT: Dixit, Vishva
; APPLICANT: Gentz, Reiner L.
; APPLICANT: Dillon, Patrick J.
; TITLE OF INVENTION: Death Domain Containing Receptors
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
; STREET: 1100 New York Ave., NW, Suite 600
; CITY: Washington

Db 3 LeuSerThrValProAspLeuLeuProLeuValLeuLeuGluLeuValGlyIle 22
QY 84 -----CCGGTAATATTGCTATGCCT-----GAATCATACTCCTTC 119
Db 23 TyrProSerGlyValIleGlyLeuValProHisLeuGlyAspArgGluLysArgAspSer 42
QY 120 AACTGTCGGATGGTGAATAC-----CAGTCTAATGATGCTGTTGCAAGACCTGT 170
Db 43 ValCysProGlnGlyLysTyrIleHisProGlnAsnSerIleCysCysThrLysCys 62
QY 171 CCTCAGGTACATTGTCAAGCGCCTGCATAATCCCAATCTCAAGGACATGTGAG 230
Db 63 HisLysGlyThrTyrLeuTyrAsnAspCysProGlyProGlyGlnAspThrAspCysArg 82
QY 231 AAGTGTCAACCCAGGAACATTCACAGGAAAGATAATGGCTGCATGATTGTGAACCTTGC 290
Db 83 GluCysGluSerGlySerPheThrAlaSerGluAsnHisLeuArgHisCysLeuSerCys 102
QY 291 TCCACCTGTGATAAAGACCAAGATATGGTG-----GCTGACTGTTCTGCCACCACTGAC 344
Db 103 SerLysCysArgLysGluMetGlyGlnValGluIleSerSerCysThrValAspArgAsp 122
QY 345 CGGAATCGAGTGCACATAGTCTTTAC---TACTATGACCCCAAAATTCGGAATCA 401
Db 123 ThrValCysGlyCysArgLysAsnGlnTyrArgHisTyrTrpSerGluAsnLeuPheGln 142
QY 402 TGCCGCCCATGTACCAAGTGTCCCAAGGAATCCCTGCTCCTCCAGGAATGCAACTCCACA 461
Db 143 CysPheAsnCysSerLeuCysLeuAsnGly---ThrValHisLeuSerCysGlnGluLys 161
QY 462 GCTAACACTGTGTGCAGTTCA-----TCT 485
Db 162 GlnAsnThrValCysThrCysHisAlaGlyPhePheLeuArgGluAsnGluCysValSer 181
QY 486 GTTTCAAATCCCAAGAACTGGCTGTTCTTACTGATCTAATGCTCTTCTGTATCTGAAGA 545
Db 182 CysSerAsnCysLysLysSerLeuGluCysThrLysLeuCysLeuProGlnIle-GluAs 201
QY 546 AGATAAAGTTCTACAGATGGTGTCTGTAGTCTCCTTTTATTGCTG 591
Db 201 nValLysGlyThrGluAspSerGlyThrThrValLeuLeuProLeu 216

Search completed: August 20, 2003, 13:37:42
Job time : 32.5 secs

GenCore version 5.1.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: August 20, 2003, 13:34:53 ; Search time 66 Seconds

(without alignments)
6034.249 Million cell updates/sec

Title: US-09-855-266A-3

Perfect score: 2704

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Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 497079 seqs, 131961718 residues

Total number of hits satisfying chosen parameters: 994158

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-DB=PublishedApplications_AA -GFM=fastan -SUFFIX=rapb -MINMATCH=0.1
-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR_SCORE=pct -THR_MAX=100
-THR_MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0
-MAXLEN=2000000000 -USER=US09855266 -cgn1_1.99 -runat_20082003_122117_5823
-NCPU=6 -ICPU=3 -NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOC=100
-LONGLOG -DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=0.5
-XGAPOP=6 -FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

Published Applications_AA:*
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5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
7: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Score	Match Length	DB ID	Description

Sequence 1, Appli	1000	37.0	176	10	US-09-855-266A-1	Sequence 1, Appli
Sequence 8, Appli	1000	37.0	176	15	US-10-193-616-8	Sequence 8, Appli
Sequence 14, Appli	917	33.9	396	15	US-10-193-616-14	Sequence 14, Appli
Sequence 2, Appli	858	31.7	148	10	US-09-855-266A-2	Sequence 2, Appli
Sequence 6, Appli	668	24.7	117	15	US-10-193-616-6	Sequence 6, Appli
Sequence 15, Appli	216.5	8.0	461	9	US-09-899-422-15	Sequence 15, Appli
Sequence 15, Appli	216.5	8.0	461	10	US-09-898-234-15	Sequence 15, Appli
Sequence 25, Appli	216.5	8.0	461	10	US-09-899-429A-25	Sequence 25, Appli
Sequence 15, Appli	216.5	8.0	461	10	US-09-792-356-15	Sequence 15, Appli
Sequence 10, Appli	215.5	8.0	247	15	US-10-193-616-10	Sequence 10, Appli
Sequence 13, Appli	213.5	7.9	162	9	US-09-798-789-13	Sequence 13, Appli
Sequence 423, Appl	213.5	7.9	162	16	US-10-218-102-423	Sequence 423, Appl
Sequence 13, Appl	212.5	7.9	123	10	US-09-855-266A-13	Sequence 13, Appl
Sequence 15, Appli	207.5	7.7	162	9	US-09-798-789-15	Sequence 15, Appli
Sequence 425, App	207.5	7.7	162	16	US-10-218-102-425	Sequence 425, App
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Sequence 3, Appli	207.5	7.7	455	9	US-09-333-966-5	Sequence 3, Appli
Sequence 3, Appli	207.5	7.7	455	9	US-09-027-287-3	Sequence 3, Appli
Sequence 16, Appli	207.5	7.7	455	9	US-09-874-138-3	Sequence 16, Appli
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Sequence 2, Appli	207.5	7.7	455	9	US-09-252-656B-3	Sequence 2, Appli
Sequence 17, Appli	207.5	7.7	455	9	US-09-899-422-2	Sequence 17, Appli
Sequence 5, Appli	207.5	7.7	455	9	US-09-899-422-17	Sequence 5, Appli
Sequence 2, Appli	207.5	7.7	455	10	US-09-935-727-5	Sequence 2, Appli
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Sequence 2, Appli	207.5	7.7	455	10	US-09-792-356-2	Sequence 2, Appli
Sequence 2, Appli	207.5	7.7	455	11	US-09-314-889-5	Sequence 2, Appli
Sequence 3, Appli	207.5	7.7	455	13	US-10-005-842-3	Sequence 3, Appli
Sequence 2, Appli	207.5	7.7	455	14	US-10-120-397-2	Sequence 2, Appli
Sequence 2, Appli	207.5	7.7	455	14	US-10-041-574-5	Sequence 2, Appli
Sequence 4, Appli	207.5	7.7	455	15	US-10-252-408-4	Sequence 4, Appli
Sequence 16, Appli	207.5	7.7	455	15	US-10-038-557A-16	Sequence 16, Appli
Sequence 4, Appli	207.5	7.7	455	15	US-10-175-902-4	Sequence 4, Appli
Sequence 3, Appli	207.5	7.7	455	15	US-10-186-643-3	Sequence 3, Appli
Sequence 14, Appli	206.5	7.6	355	9	US-09-826-212-14	Sequence 14, Appli
Sequence 14, Appli	206.5	7.6	355	10	US-09-935-727-16	Sequence 14, Appli
Sequence 14, Appli	206.5	7.6	355	15	US-10-186-643-14	Sequence 14, Appli

ALIGNMENTS

RESULT 1

US-09-855-266A-1
; Sequence 1, Application US/09855266A
; Patent No. US20020128435A1
; GENERAL INFORMATION:
; APPLICANT: Kimura, Naoki
; APPLICANT: Toyoshima, Tomoko
; TITLE OF INVENTION: NOVEL SECRETORY MEMBRANE PROTEIN
; FILE REFERENCE: 06501-040002
; CURRENT APPLICATION NUMBER: US/09/855,266A
; PRIOR FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 09/411,722
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: PCT/JP98/01511
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: JP 9/099653
; PRIOR FILING DATE: 1997-04-01
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 176
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-855-266A-1

Alignment Scores:
 Pred. No.: 1.39e-91 Length: 176
 Score: 1000.00 Matches: 176
 Percent Similarity: 100.00% Conservations: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 36.98% Indels: 0
 DB: 10 Gaps: 0

US-09-855-266A-3 (1-1509) x US-09-855-266A-1 (1-176)

QY 12 ATGGTTACCTTCAGCCAGCTCTCCAGTCTCAGTCACTGGTTCCTCTGCTGCTGCTG 71
 Db 1 MetValThrPheSerHisValSerSerLeuSerHisThrPheLeuLeuLeuLeuLeu 20
 QY 72 AATCTGTTCTGCGGTAAATATTGCTATGCTGAATCATCTCTTCAACTGTCCTCCGAT 131
 Db 21 AsnLeuPheLeuProValIlePheAlaMetProGluSerTyrSerPheAsnCysProAsp 40
 QY 132 GGTGAATACCACTTAATGATGCTGTGTCAGAACCTGTCCCTCAGGTACATTTGTCAAG 191
 Db 41 GlyGluTyrGlnSerAsnAspValCysCysLysThrCysProSerGlyThrPheValLys 60
 QY 192 GCGCCTGCAAAATCCCCATCTCAAGGACAATGTGAGAAGTGTCCACCAAGCAATTC 251
 Db 61 AlaProCysLysIleProHisThrGlnGlyGlnCysGluLysCysHisProGlyThrPhe 80
 QY 252 ACAGGAAAGATAATGGCTGCATGATTGTGAACCTTTGCTCCACCTGTGATAAAGACCAG 311
 Db 81 ThrGlyLysAspAsnGlyLeuHisAspCysGluLeuCysSerThrCysAspLysAspGln 100
 QY 312 AATATGGTGGCTGACTTCTGCCACCAAGTACCGGAAATGCGAGTGCCTCAATAGGCTT 371
 Db 101 AsnMetValAlaAspCysSerAlaThrSerAspArgLysCysGluCysGlnIleGlyLeu 120
 QY 372 TACTACTATACCAAAATTTCCGGAATATCCGCAATCATGCCCATGTACCAAGTGTCCCAAGGA 431
 Db 121 TyrTyrAspProLysPheProGluSerAlaThrSerAspArgLysCysGluCysGlnIleGlyLeu 140
 QY 432 ATCCCTGCTCCAGGAATCACTCCACAGCTAACACTGTGTCAGTTCATCTGTTTCA 491
 Db 141 IleProValLeuGlnGluCysAsnSerThrAlaAsnThrValCysSerSerValSer 160
 QY 492 AATCCCAAGAACTGGCTGTTCTTACTGATGCTAATGCTTCTGTATC 539
 Db 161 AsnProArgAsnTrpLeuPheLeuLeuMetLeuIleValPheCysIle 176

RESULT 2

US-10-193-616-8
 ; Sequence 8, Application US/10193616
 ; Publication No. US20030096355A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Zhang, Ke
 ; TITLE OF INVENTION: Isolation, Identification, and Characterization of
 ; TITLE OF INVENTION: ymkz5, a novel
 ; FILE REFERENCE: 01017/35551A
 ; CURRENT APPLICATION NUMBER: US/10/193,616
 ; PRIOR FILING DATE: 2002-07-11
 ; PRIOR FILING DATE: 2000-07-07
 ; PRIOR FILING DATE: 2000-07-07
 ; PRIOR FILING DATE: 1999-07-07
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 8
 ; LENGTH: 176
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 ; OTHER INFORMATION: ymkz5-Fc fusion protein
 US-10-193-616-8

Alignment Scores:
 Pred. No.: 1.39e-91 Length: 176
 Score: 1000.00 Matches: 176

Score: 1000.00 Matches: 176
 Percent Similarity: 100.00% Conservations: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 36.98% Indels: 0
 DB: 15 Gaps: 0

US-09-855-266A-3 (1-1509) x US-10-193-616-8 (1-176)

QY 12 ATGGTTACCTTCAGCCAGCTCTCCAGTCTCAGTCACTGGTTCCTCTGCTGCTGCTG 71
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 QY 72 AATCTGTTCTGCGGTAAATATTGCTATGCTGAATCATCTCTTCAACTGTCCTCCGAT 131
 Db 21 AsnLeuPheLeuProValIlePheAlaMetProGluSerTyrSerPheAsnCysProAsp 40
 QY 132 GGTGAATACCACTTAATGATGCTGTGTCAGAACCTGTCCCTCAGGTACATTTGTCAAG 191
 Db 41 GlyGluTyrGlnSerAsnAspValCysCysLysThrCysProSerGlyThrPheValLys 60
 QY 192 GCGCCTGCAAAATCCCCATCTCAAGGACAATGTGAGAAGTGTCCACCAAGCAATTC 251
 Db 61 AlaProCysLysIleProHisThrGlnGlyGlnCysGluLysCysHisProGlyThrPhe 80
 QY 252 ACAGGAAAGATAATGGCTGCATGATTGTGAACCTTTGCTCCACCTGTGATAAAGACCAG 311
 Db 81 ThrGlyLysAspAsnGlyLeuHisAspCysGluLeuCysSerThrCysAspLysAspGln 100
 QY 312 AATATGGTGGCTGACTTCTGCCACCAAGTACCGGAAATGCGAGTGCCTCAATAGGCTT 371
 Db 101 AsnMetValAlaAspCysSerAlaThrSerAspArgLysCysGluCysGlnIleGlyLeu 120
 QY 372 TACTACTATACCAAAATTTCCGGAATATCCGCAATCATGCCCATGTACCAAGTGTCCCAAGGA 431
 Db 121 TyrTyrAspProLysPheProGluSerAlaThrSerAspArgLysCysGluCysGlnIleGlyLeu 140
 QY 432 ATCCCTGCTCCAGGAATCACTCCACAGCTAACACTGTGTCAGTTCATCTGTTTCA 491
 Db 141 IleProValLeuGlnGluCysAsnSerThrAlaAsnThrValCysSerSerValSer 160
 QY 492 AATCCCAAGAACTGGCTGTTCTTACTGATGCTAATGCTTCTGTATC 539
 Db 161 AsnProArgAsnTrpLeuPheLeuLeuMetLeuIleValPheCysIle 176

RESULT 3

US-10-193-616-14
 ; Sequence 14, Application US/10193616
 ; Publication No. US20030096355A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Zhang, Ke
 ; TITLE OF INVENTION: Isolation, Identification, and Characterization of
 ; TITLE OF INVENTION: ymkz5, a novel
 ; FILE REFERENCE: 01017/35551A
 ; CURRENT APPLICATION NUMBER: US/10/193,616
 ; PRIOR FILING DATE: 2002-07-11
 ; PRIOR FILING DATE: 2000-07-07
 ; PRIOR FILING DATE: 2000-07-07
 ; PRIOR FILING DATE: 1999-07-07
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 14
 ; LENGTH: 396
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 ; OTHER INFORMATION: ymkz5-Fc fusion protein
 US-10-193-616-14

Alignment Scores:
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Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Query Match: 33.91%
DB: 15
Indels: 0
Gaps: 0

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DB 21 AsnLeuPheLeuProValIlePheAlaMetProGluSerTyrSerPheAsnCysProAsp 40
QY 132 GGTGAATACCACTCTAATGATGCTCTTGTCAAGACCTGTCCTCAGGTACATTTGTCAAG 191
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QY 192 GGGCCCTGCAAAATCCCCATACTCAAGGACAAATGTGAGAAAGTGTCCACCCAGGAACATTC 251
DB 61 AlaProCysLysIleProHisThrGlnGlyGlnCysGluLysCysHisProGlyThrPhe 80
QY 252 ACAGGAAAGATAATGGCTGCGATGATTTGTGAATTTGTCCACCTGTGTGATAAGACCAAG 311
DB 81 ThrGlyLysAspAsnGlyLeuHisAspCysGluLeuCysSerThrCysAspLysAspGln 100
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DB 121 TyrTyrAspProLysPheProGluSerCysArgProCysThrLysCysProGlnGly 140
QY 432 ATCCCTGTCTCCAGGAATGCAACTCCACAGCTAACACTGTGTGCACTGTCATCTGTTTCA 491
DB 141 IleProValLeuGlnGluCysAsnSerThrAlaAsnThrValCysSerSerValSer 160
QY 492 AAT 494
DB 161 Asn 161

RESULT 4

US-09-855-266A-2
; Sequence 2, Application US/09855266A
; Patent No. US20020128435A1
; GENERAL INFORMATION:
; APPLICANT: Kimura, Naoki
; APPLICANT: Toyoshima, Tomoko
; TITLE OF INVENTION: NOVEL SECRETORY MEMBRANE PROTEIN
; FILE REFERENCE: 06501-040002
; CURRENT APPLICATION NUMBER: US/09/855,266A
; CURRENT FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 09/411,722
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: PCT/JP98/01511
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: JP 9/099653
; PRIOR FILING DATE: 1997-04-01
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-855-266A-2

Alignment Scores:
Pred. No.: 2.39e-77 Length: 148
Score: 858.00 Matches: 148
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Conservative: 0
Mismatches: 0

Query Match: 31.73% Indels: 0
DB: 10 Gaps: 0
US-09-855-266A-3 (1-1509) x US-09-855-266A-2 (1-148)
QY 96 GCTATGCTGAATCATACTCTTCAACATGTCCTGATGTCCTGATGTCCTGATGTCCTGATGTC 155
DB 1 AlaMetProGluSerTyrSerPheAsnCysProAspGlyGluTyrGlnSerAsnAspVal 20
QY 156 TGTTCGAAGACCTGCTCCTCAGGTACATTTGTCAAGGCGCCCTGCAAAATCCCCCATACT 215
DB 21 CysCysLysThrCysProSerGlyThrPheValLysAlaProCysLysIleProHisThr 40
QY 216 CAAGGACAATGTGAGAAGTGTCCACCGAGAACATTCACAGGAGAAAGATAATGGCTGCAT 275
DB 41 GlnGlyGlnCysGluLysCysHisProGlyThrPheThrGlyLysAspAsnGlyLeuHis 60
QY 276 GATTGTCAACTTCTCCACCTGTGATAAAGACAGCAATATGGTGGCTGACTGTTCTGCC 335
DB 61 AspCysGluLeuCysSerThrCysAspLysAspGlnAsnMetValAlaAspCysSerAla 80
QY 336 ACCAGTACCCGGAATGCGAGTGTCCCAATAGTCTTTACTACTATGACCCCAAAATTTCCG 395
DB 81 ThrSerAspArgLysCysGluCysGlnIleGlyLeuTyrTyrAspProLysPhePro 100
QY 396 GAATCATGCGCCCACTGTACCAAGTGTCCCAAGGAATCCCTGTCTCCAGGAATGCAAC 455
DB 101 GluSerCysArgProCysThrLysCysProGlnGlyIleProValLeuGlnGluCysAsn 120
QY 456 TCCACAGCTAACACTGTGTGCACTGTCATCTGTTTCAAAATCCAGAAATGCTGTTCTCTA 515
DB 121 SerThrAlaAsnThrValCysSerSerValSerAsnProArgAsnTrpLeuPheLeu 140
QY 516 CTGATGCTAATGTTCTCTGTATC 539
DB 141 LeuMetLeuIleValPheCysIle 148

RESULT 5

US-10-193-616-6
; Sequence 6, Application US/10193616
; Publication No. US20030096355A1
; GENERAL INFORMATION:
; APPLICANT: Zhang, Ke
; TITLE OF INVENTION: Isolation, Identification, and Characterization of
; TITLE OF INVENTION: ymkz5, a novel
; TITLE OF INVENTION: member of the TNF-Receptor Supergene Family
; FILE REFERENCE: 01017/35551A
; CURRENT APPLICATION NUMBER: US/10/193,616
; CURRENT FILING DATE: 2002-07-11
; PRIOR APPLICATION NUMBER: US/09/611,989
; PRIOR FILING DATE: 2000-07-07
; PRIOR APPLICATION NUMBER: US 60/143,137
; PRIOR FILING DATE: 1999-07-07
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-193-616-6

Alignment Scores:
Pred. No.: 2.65e-58 Length: 117
Score: 668.00 Matches: 117
Percent Similarity: 100.00%
Best Local Similarity: 100.00%
Conservative: 0
Mismatches: 0
Query Match: 24.70%
DB: 15 Indels: 0
Gaps: 0

US-09-855-266A-3 (1-1509) x US-10-193-616-6 (1-117)

QY 12 ATGGTTACCTTCAGCCACACTCTCCAGTCTGTCAGTCTGTCCTGCTGCTGCTGCTG 71
|||||

Db 1 MetValThrPheSerHisValSerSerLeuSerHisTrpPheLeuLeuLeuLeuLeuLeu 20
QY 72 AATCTGTTGCGGTAATATTGCTGATGCTGAATCATACTCTTCAACTGTCCTCCGAT 131
Db 21 AsnLeuPheLeuProValIlePheAlaMetProGluSerTyrSerPheAsnProAsp 40
QY 132 GGTGAATACCACTAATGATGCTGTGTCAGACCTGCTCCCTCAGGTACATTGTCAG 191
Db 41 GlyGluThrGlnSerAsnAspValCysCysLysThrCysProSerGlyThrPheVallys 60
QY 192 GCGCCCTGCAAAATCCCTTACTCAAGGACAATGTGAGAAGTGTACCCAGGAAATTC 251
Db 61 AlaProCysLysIleProHisThrGlnGlyGlnCysGluLysCysHisProGlyThrPhe 80
QY 252 ACAGGAAAGTAATGCTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 311
Db 81 ThrGlyLysAspAsnGlyLeuHisAspCysGluLeuCysSerThrCysAspLysAspGln 100
QY 312 AATATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 362
Db 101 AsnMetValAlaAspCysSerAlaThrSerAspArgLysCysGluCysGln 117

RESULT 6

US-09-899-422-15

; Sequence 15, Application US/09899422

; Patent No. US2002090676A1

; GENERAL INFORMATION:

; APPLICANT: Hauptmann, Rudolph

; APPLICANT: Himmler, Adolph

; APPLICANT: Maurer-Fogy, Ingrid

; APPLICANT: Stratowa, Christian

; TITLE OF INVENTION: TNF Receptors, TNF Binding Proteins and DNAs Coding for

; FILE REFERENCE: Them

; FILE REFERENCE: 98,385-H

; CURRENT APPLICATION NUMBER: US/09/899,422

; PRIOR FILING DATE: 2001-08-21

; PRIOR APPLICATION NUMBER: 09/525,998

; PRIOR FILING DATE: 2000-03-15

; PRIOR APPLICATION NUMBER: 08/383,676

; PRIOR FILING DATE: 1995-02-01

; PRIOR APPLICATION NUMBER: 08/153,287

; PRIOR FILING DATE: 1993-11-17

; PRIOR APPLICATION NUMBER: 07/821,750

; PRIOR FILING DATE: 1992-01-02

; PRIOR APPLICATION NUMBER: 07/511,430

; PRIOR FILING DATE: 1990-04-20

; NUMBER OF SEQ ID NOS: 87

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 15

; LENGTH: 461

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: ratNF-R8

US-09-899-422-15

Alignment Scores:

Pred. No.:	8.56e-13	Length:	461
Score:	216.50	Matches:	63
Percent Similarity:	39.45%	Conservative:	23
Best Local Similarity:	28.90%	Mismatches:	71
Query Match:	8.01%	Indels:	61
DB:	9	Gaps:	9

US-09-855-266A-3 (1-1509) x US-09-899-422-15 (1-461)

QY 123 TGTCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 173
Db 44 CysProGlnGlyLysTyrAlaHisProLysAsnSerIleCysCysThrLysCysHis 63
QY 174 TCAGGTACATTTGCAAGCGCTGCAAAATCCCTTACTCAAGGACAATGTGAGAG 233
Db 64 LysGlyThrTyrLeuValSerAspCysProSerProGlyGlnGluThrValCysGluLeu 83

QY 234 TGTCACTCCAGGAACATTCACAGGAAAGATAATATGGCTGCTGATGATTGTGAACCTTCTCTCC 293
Db 84 SerHisLysGlyThrPheThrAlaSerGlnAsnHisValArgGlnCysLeuSerCysLys 103
QY 294 ACCTGTGATAAGAC-----CAGATATATGGTGGCTGACTGTTCTCTCCACCTGACCGG 347
Db 104 ThrCysArgLysGluMetPheGlnValGluIleSerProCysLysAlaAspMetAspThr 123
QY 348 AATCGAGTGC-----CAATATAGTCTTTTACTATGATGACCAAAATTTCCGGAA 398
Db 124 ValCysGlyCysLysLysAsnGlnPheGlnArgTyrLeuSerGluThrHisPhe----- 141
QY 399 TCATGCCGCCCATGTACCAAGTGTCCCCAAGGA-----ATCCTGTCTCTCCAGGAA 449
Db 142 GlnCysValAspCysSerProCysPheAsnGlyThrValThrIleProCysLysGluLys 161
QY 450 TCACTCCACAGCTAAC-----ACTGTG 473
Db 162 GlnAsnThrValCysAsnCysHisAlaGlyPhePheLeuSerGlyAsnGluCysThrPro 181
QY 474 TGCAGTTCTATCTGTTTCAAAATCCAG-----AACTGGCTGTTCTTCTACTGATGCTA 524
Db 182 CysSer-His-CysLysLysAsnGlnGluCysMetLysLeuCysLeuProValAla 201
QY 525 AT----- 526
Db 201 snValThrAsnProGlnAspSerGlyThrAlaValLeuLeuProLeuValIlePheLeuG 221
QY 527 -----TGTCTCTGTTATCTGAAGAAGATAAGTTCTACAGATGGTGTCTGTAGCTTCT 581
Db 221 lylCysLeuLeuPhePheIleCysIleSerLeuLeu----- 233
QY 582 TTTATTGCTGTGAAGAGAAACCATGAGGAGCAACTCTTTTCATTTATTTTA 631
Db 234 -----CysArgTyrProGlnTrpArgProArgValTyrSerIlelle 247

RESULT 7

US-09-898-234-15

; Sequence 15, Application US/09898234

; Patent No. US20020155112A1

; GENERAL INFORMATION:

; APPLICANT: Hauptmann, Rudolph

; APPLICANT: Himmler, Adolph

; APPLICANT: Maurer-Fogy, Ingrid

; APPLICANT: Stratowa, Christian

; TITLE OF INVENTION: TNF Receptors, TNF Binding Proteins and DNAs Coding for

; FILE REFERENCE: Them

; FILE REFERENCE: 98,385-1

; CURRENT APPLICATION NUMBER: US/09/898,234

; CURRENT FILING DATE: 2001-07-03

; PRIOR APPLICATION NUMBER: 09/525,998

; PRIOR FILING DATE: 2000-03-15

; PRIOR APPLICATION NUMBER: 08/383,676

; PRIOR FILING DATE: 1995-02-01

; PRIOR APPLICATION NUMBER: 08/153,287

; PRIOR FILING DATE: 1993-11-17

; PRIOR APPLICATION NUMBER: 07/821,750

; PRIOR FILING DATE: 1992-01-02

; PRIOR APPLICATION NUMBER: 07/511,430

; PRIOR FILING DATE: 1990-04-20

; NUMBER OF SEQ ID NOS: 87

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 15

; LENGTH: 461

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: ratNF-R8

US-09-898-234-15

Alignment Scores:

Pred. No.:	8.56e-13	Length:	461
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Score: 216.50 Matches: 63
 Percent Similarity: 39.45% Conservative: 23
 Best Local Similarity: 28.90% Mismatches: 71
 Query Match: 8.01% Indels: 61
 DB: 10 Gaps: 9

US-09-855-266A-3 (1-1509) x US-09-899-234-15 (1-461)

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QY 123 TGTCCCGATGGTGAATAC-----CAGTCTAATGATGCTGTTGCAAGACCTGTGCC 173
Db 44 CysProGlnGlyLysTyraHisProLysAsnSerIleCysCysThyLysCysHis 63
QY 174 TCAGGTACATTTGTCGAAGCGCCCTGCAAAATCCCATACTCAAGGACAATGTGAGAAG 233
Db 64 LysGlyThrTyrrLeuValSerAspCysProSerProGlyGlnGluThrValCysGluLeu 83
QY 234 TGTCAACCCAGGACATTCACAGGAAGATAAATGGCTGTCATGTCGATGTCGATTTGCTCC 293
Db 84 SerHisLysGlyThrPheThrAlaSerGlnAsnHisValArgGlnCysLeuSerCysLys 103
QY 294 ACCTGTGATAAAGAC-----CAGAAATATGGTGGCTGACTGTTCTGCCACACAGTGACCGG 347
Db 104 ThrCysArgLysGluMetPheGlnValGluIleSerProCysLysAlaAspMetAspThr 123
QY 348 AAATCGAGTGC-----CAAAATAGTCTTTTACTACTATGACCCCAAAATTTCCGGAA 398
Db 124 ValCysGlyCysLysAsnGlnPheGlnArgTyrrLeuSerGluThrHisPhe-----141
QY 399 TCATGCGGCCCATGTACCAAGTGTCCCAAGGA-----ATCCCTGTCTCCAGGAA 449
Db 142 GlnCysValAspCysSerProCysPheAsnGlyThrValThrIleProCysLysGluLys 161
QY 450 TGCAACTCCACAGCTAAC-----ACGTGTG 473
Db 162 GlnAsnThrValCysAsnCysHisAlaGlyPhePheLeuSerGlyAsnGluCysThyPro 181
QY 474 TCGAGTCTATCTGTTTCAATCCAG-----AAACTGGCTGTCTCTACTGATGCTA 524
Db 182 CysSer-His-CysLysLysAsnGlnGluCysMetLysLeuCysLeuProValAlaA-201
QY 525 AT-----526
Db 201 snValThrAsnProGlnAspSerGlyThrAlaValLeuLeuProLeuValIlePheLeuG 221
QY 527 -----TGTCTTCTGTATCTGAAGAAGATAAAGTCTTACAGATGGTCTGTAGTCTCCT 581
Db 221 LysLeuCysLeuLeuPhePheIleCysIleSerLeu-----233
QY 582 TTTATTGCTGTGAAGAAACCATGGAGCAACTCTTTCATTTTATTTTA 631
Db 234 -----CysArgTyrrProGlnTrrArgProArgValTyrrSerIleIle 247

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RESULT 8

US-09-899-429A-25
 ; Sequence 25, Application US/09899429A
 ; Patent No. US20020169118A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hauptmann, Rudolph
 ; APPLICANT: Himmler, Adolph
 ; APPLICANT: Maurer-Foggy, Ingrid
 ; APPLICANT: Stratowa, Christian
 ; TITLE OF INVENTION: TNF Receptors, TNF Binding Proteins and DNAs Coding for
 ; TITLE OF INVENTION: Them
 ; FILE REFERENCE: 98-385-J
 ; CURRENT APPLICATION NUMBER: US/09/899,429A
 ; CURRENT FILING DATE: 2001-07-03
 ; PRIOR APPLICATION NUMBER: 09/792,356
 ; PRIOR FILING DATE: 2000-02-23
 ; PRIOR APPLICATION NUMBER: 08/477,639
 ; PRIOR FILING DATE: 1993-06-07
 ; PRIOR APPLICATION NUMBER: 08/383,676
 ; PRIOR FILING DATE: 1995-02-01
 ; PRIOR APPLICATION NUMBER: 08/153,287

; PRIOR FILING DATE: 1993-11-17
 ; PRIOR APPLICATION NUMBER: 07/821,750
 ; PRIOR FILING DATE: 1992-01-02
 ; PRIOR APPLICATION NUMBER: 07/511,430
 ; PRIOR FILING DATE: 1990-04-20
 ; NUMBER OF SEQ ID NOS: 97
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 25
 ; LENGTH: 461
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: ratNF-R8
 US-09-899-429A-25

Alignment Scores:
 Pred. No.: 8,56e-13 Length: 461
 Score: 216.50 Matches: 63
 Percent Similarity: 39.45% Conservative: 23
 Best Local Similarity: 28.90% Mismatches: 71
 Query Match: 8.01% Indels: 61
 DB: 10 Gaps: 9

US-09-855-266A-3 (1-1509) x US-09-899-429A-25 (1-461)

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QY 123 TGTCCCGATGGTGAATAC-----CAGTCTAATGATGCTGTTGCAAGACCTGTGCC 173
Db 44 CysProGlnGlyLysTyrrAlaHisProLysAsnSerIleCysCysThyLysCysHis 63
QY 174 TCAGGTACATTTGTCGAAGCGCCCTGCAAAATCCCATACTCAAGGACAATGTGAGAAG 233
Db 64 LysGlyThrTyrrLeuValSerAspCysProSerProGlyGlnGluThrValCysGluLeu 83
QY 234 TGTCAACCCAGGACATTCACAGGAAGATAAATGGCTGTCATGTCGATGTCGATTTGCTCC 293
Db 84 SerHisLysGlyThrPheThrAlaSerGlnAsnHisValArgGlnCysLeuSerCysLys 103
QY 294 ACCTGTGATAAAGAC-----CAGAAATATGGTGGCTGACTGTTCTGCCACACAGTGACCGG 347
Db 104 ThrCysArgLysGluMetPheGlnValGluIleSerProCysLysAlaAspMetAspThr 123
QY 348 AAATCGAGTGC-----CAAAATAGTCTTTTACTACTATGACCCCAAAATTTCCGGAA 398
Db 124 ValCysGlyCysLysLysAsnGlnPheGlnArgTyrrLeuSerGluThrHisPhe-----141
QY 399 TCATGCGGCCCATGTACCAAGTGTCCCAAGGA-----ATCCCTGTCTCCAGGAA 449
Db 142 GlnCysValAspCysSerProCysPheAsnGlyThrValThrIleProCysLysGluLys 161
QY 450 TGCAACTCCACAGCTAAC-----ACGTGTG 473
Db 162 GlnAsnThrValCysAsnCysHisAlaGlyPhePheLeuSerGlyAsnGluCysThyPro 181
QY 474 TCGAGTCTATCTGTTTCAATCCAG-----AAACTGGCTGTCTCTACTGATGCTA 524
Db 182 CysSer-His-CysLysLysAsnGlnGluCysMetLysLeuCysLeuProValAlaA-201
QY 525 AT-----526
Db 201 snValThrAsnProGlnAspSerGlyThrAlaValLeuLeuProLeuValIlePheLeuG 221
QY 527 -----TGTCTTCTGTATCTGAAGAAGATAAAGTCTTACAGATGGTCTGTAGTCTCCT 581
Db 221 LysLeuCysLeuLeuPhePheIleCysIleSerLeu-----233
QY 582 TTTATTGCTGTGAAGAAACCATGGAGCAACTCTTTCATTTTATTTTA 631
Db 234 -----CysArgTyrrProGlnTrrArgProArgValTyrrSerIleIle 247

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RESULT 9

US-09-792-356-15
 ; Sequence 15, Application US/09792356
 ; Publication No. US20020183485A1

```

; GENERAL INFORMATION:
; APPLICANT: Hauptmann, Rudolph
; APPLICANT: Himmler, Adolf
; APPLICANT: Maurer-Fogy, Ingrid
; APPLICANT: Stratowa, Christian
; TITLE OF INVENTION: TNF Receptors, TNF Binding Proteins and DNAs Coding for
; TITLE OF INVENTION: Them
; FILE REFERENCE: 98,385-G
; CURRENT APPLICATION NUMBER: US/09/792,356
; CURRENT FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: 08/477,639
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: 08/383,676
; PRIOR FILING DATE: 1995-02-01
; PRIOR APPLICATION NUMBER: 08/153,287
; PRIOR FILING DATE: 1993-11-17
; PRIOR APPLICATION NUMBER: 07/821,750
; PRIOR FILING DATE: 1992-01-02
; PRIOR APPLICATION NUMBER: 07/511,430
; PRIOR FILING DATE: 1990-04-20
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: ratNF-R8
US-09-792-356-15

Alignment Scores:
Pred. No.: 8,568-13 Length: 461
Score: 216.50 Matches: 63
Percent Similarity: 39.45% Conservative: 23
Best Local Similarity: 28.90% Mismatches: 71
Query Match: 8.01% Indels: 61
DB: 10 Gaps: 9

US-09-855-266A-3 (1-1509) x US-09-792-356-15 (1-461)
QY 123 TGTCCCGATGGTGAATAC-----CAGTCTAATGATGCTGTGTGCAAGACCTGTCC 173
DB 123 TGTCCCGATGGTGAATAC-----CAGTCTAATGATGCTGTGTGCAAGACCTGTCC 173
QY 174 TCAGGTACATTTGTCAAGCGCCCTGCAAAATCCCATCTACTCAAGCAATGTGAGAAG 233
DB 174 TCAGGTACATTTGTCAAGCGCCCTGCAAAATCCCATCTACTCAAGCAATGTGAGAAG 233
QY 234 TGTACCCAGGACATTCACAGGGAAGATATGCGCTGCATGATGTGAACCTTGTCTCC 293
DB 234 TGTACCCAGGACATTCACAGGGAAGATATGCGCTGCATGATGTGAACCTTGTCTCC 293
QY 84 SerHisLysGlyThrPheThrAlaSerGlnAsnHisValArgGlnCysLeuSerCysLys 103
DB 84 SerHisLysGlyThrPheThrAlaSerGlnAsnHisValArgGlnCysLeuSerCysLys 103
QY 294 ACCTGTGATAAAGAC-----CAGAATATGGTGGCTGACTGTCTGCCACCATGACCGG 347
DB 294 ACCTGTGATAAAGAC-----CAGAATATGGTGGCTGACTGTCTGCCACCATGACCGG 347
QY 104 ThrCysArgLysGluMetPheGlnValGluIleSerProCysLysAlaAspMetAspThr 123
DB 104 ThrCysArgLysGluMetPheGlnValGluIleSerProCysLysAlaAspMetAspThr 123
QY 348 AAATCGAGTG-----CAAAATAGTCTTTACTATGATGATGATGATGATGATGATGAT 398
DB 348 AAATCGAGTG-----CAAAATAGTCTTTACTATGATGATGATGATGATGATGATGAT 398
QY 124 ValCysGlyCysLysLysAsnGlnPheGlnArgTyrLeuSerGluThrHisPhe----- 141
DB 124 ValCysGlyCysLysLysAsnGlnPheGlnArgTyrLeuSerGluThrHisPhe----- 141
QY 399 TCATGCCGCCATGATACCAAGTGTCCCAAGGAATCCCTGCTCTCCAGGAATCAACTCC 458
DB 399 TCATGCCGCCATGATACCAAGTGTCCCAAGGAATCCCTGCTCTCCAGGAATCAACTCC 458
QY 142 GlnCysValAspCysSerProCysPheAsnGly---ThrValThrIleProCysLysGlu 160
DB 142 GlnCysValAspCysSerProCysPheAsnGly---ThrValThrIleProCysLysGlu 160
QY 459 ACAGTAACACTGTGTGCACT----- 479
DB 459 ACAGTAACACTGTGTGCACT----- 479

; GENERAL INFORMATION:
; APPLICANT: Hauptmann, Rudolph
; APPLICANT: Himmler, Adolf
; APPLICANT: Maurer-Fogy, Ingrid
; APPLICANT: Stratowa, Christian
; TITLE OF INVENTION: TNF Receptors, TNF Binding Proteins and DNAs Coding for
; TITLE OF INVENTION: Them
; FILE REFERENCE: 98,385-G
; CURRENT APPLICATION NUMBER: US/09/792,356
; CURRENT FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: 08/477,639
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: 08/383,676
; PRIOR FILING DATE: 1995-02-01
; PRIOR APPLICATION NUMBER: 08/153,287
; PRIOR FILING DATE: 1993-11-17
; PRIOR APPLICATION NUMBER: 07/821,750
; PRIOR FILING DATE: 1992-01-02
; PRIOR APPLICATION NUMBER: 07/511,430
; PRIOR FILING DATE: 1990-04-20
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: TNFR1
US-10-193-616-10

Alignment Scores:
Pred. No.: 8,958-13 Length: 247
Score: 215.50 Matches: 52
Percent Similarity: 40.54% Conservative: 23
Best Local Similarity: 28.11% Mismatches: 61
Query Match: 7.97% Indels: 49
DB: 15 Gaps: 7

US-09-855-266A-3 (1-1509) x US-10-193-616-10 (1-247)
QY 123 TGTCCCGATGGTGAATAC-----CAGTCTAATGATGCTGTGTGCAAGACCTGTCC 173
DB 123 TGTCCCGATGGTGAATAC-----CAGTCTAATGATGCTGTGTGCAAGACCTGTCC 173
QY 174 TCAGGTACATTTGTCAAGCGCCCTGCAAAATCCCATCTACTCAAGCAATGTGAGAAG 233
DB 174 TCAGGTACATTTGTCAAGCGCCCTGCAAAATCCCATCTACTCAAGCAATGTGAGAAG 233
QY 64 LysGlyThrTyrLeuValSerAspCysProSerProGlyArgAspThrValCysArgGlu 83
DB 64 LysGlyThrTyrLeuValSerAspCysProSerProGlyArgAspThrValCysArgGlu 83
QY 234 TGTACCCAGGACATTCACAGGGAAGATATGCGCTGCATGATGTGAACCTTGTCTCC 293
DB 234 TGTACCCAGGACATTCACAGGGAAGATATGCGCTGCATGATGTGAACCTTGTCTCC 293
QY 84 CysGluLysGlyThrPheThrAlaSerGlnAsnTyrLeuArgGlnCysLeuSerCysLys 103
DB 84 CysGluLysGlyThrPheThrAlaSerGlnAsnTyrLeuArgGlnCysLeuSerCysLys 103
QY 294 ACCTGTGATAAAGACAGATATGCTG-----GCTGACTGTCTGCTGCCACCATGACCGG 347
DB 294 ACCTGTGATAAAGACAGATATGCTG-----GCTGACTGTCTGCTGCCACCATGACCGG 347
QY 104 ThrCysArgLysGluMetSerGlnValGluIleSerProCysGlnAlaAspLysAspThr 123
DB 104 ThrCysArgLysGluMetSerGlnValGluIleSerProCysGlnAlaAspLysAspThr 123
QY 348 AAATCGAGTG-----CAAAATAGTCTTTACTATGATGATGATGATGATGATGATGAT 398
DB 348 AAATCGAGTG-----CAAAATAGTCTTTACTATGATGATGATGATGATGATGATGAT 398
QY 124 ValCysGlyCysLysGluAsnGlnPheGlnArgTyrLeuSerGluThrHisPhe----- 141
DB 124 ValCysGlyCysLysGluAsnGlnPheGlnArgTyrLeuSerGluThrHisPhe----- 141
QY 399 TCATGCCGCCATGATACCAAGTGTCCCAAGGAATCCCTGCTCTCCAGGAATCAACTCC 458
DB 399 TCATGCCGCCATGATACCAAGTGTCCCAAGGAATCCCTGCTCTCCAGGAATCAACTCC 458
QY 142 GlnCysValAspCysSerProCysPheAsnGly---ThrValThrIleProCysLysGlu 160
DB 142 GlnCysValAspCysSerProCysPheAsnGly---ThrValThrIleProCysLysGlu 160
QY 459 ACAGTAACACTGTGTGCACT----- 479
DB 459 ACAGTAACACTGTGTGCACT----- 479
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Db 161 ThrGlnAsnThrValCysAsnCysHisAlaGlyPhePheLeuArgGluSerGluCysVal 180
QY 479 -----
Db 181 ProCysSerHisCysLysLysAsnGluGluCysMetLysLeuCysLeuProProLeu 200
QY 480 TCATCTGTTTCAAAATCCAGAAC-----TGGCTGTTCTTACTGATGCTA 524
Db 201 AlaAsnValThrAsnProGlnAspSerGlyThrAlaValLeuLeuProLeuValLeu 220
QY 525 ATTGTCTTCTGATC 539
Db 221 LeuGlyLeuCysLeu 225
RESULT 11
US-09-798-789-13
; Sequence 13, Application US/09798789
; Patent No. US20020009780A1
; GENERAL INFORMATION:
; APPLICANT: Dahiyat, Bassil
; APPLICANT: Filikov, Anton
; TITLE OF INVENTION: DESIGN AND DISCOVERY OF PROTEIN BASED TNF-ALPHA
; TITLE OF INVENTION: VARIANTS FOR THE TREATMENT OF TNF-ALPHA RELATED
; TITLE OF INVENTION: DISORDERS
; FILE REFERENCE: A-68990-1/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/09/798,789
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: US 60/186,427
; PRIOR FILING DATE: 2000-03-02
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: synthetic
US-09-798-789-13

Alignment Scores:
Pred. No.: 1.25e-12 Length: 162
Score: 213.50 Matches: 44
Percent Similarity: 47.20% Conservative: 15
Best Local Similarity: 35.20% Mismatches: 59
Query Match: 7.90% Indels: 7
DB: 9 Gaps: 4

US-09-855-266A-3 (1-1509) x US-09-798-789-13 (1-162)

QY 123 TGTCCCGATGGTGAATAC-----CAGTCTAATGATGCTGTGTCAGACCTGTGCC 173
Db 5 CysProGlnGlyLysTyrIleHisProGlnAsnAsnSerIleCysCysThrLysCysHis 24
QY 174 TCAGTACATTTGTCAAGCGCCCTGCAAAATCCCATCTACTCAAGGACAATGTGAGAAG 233
Db 25 LysGlyThrTyrLeuTyrAsnAspCysProGlyProGlyGlnAspThrAspCysArgGlu 44
QY 234 TGTCAACCCAGGAACATTCACAGGAAAGATATGCGCTGCATGATTGTGAACCTTGTCTCC 293
Db 45 CysGluSerGlySerPheThrAlaSerGluAsnHisLeuArgAspCysLeuGlnCysSer 64
QY 294 ACCTGTGATAAGACCAAGATATGTG-----GCTGACTGTCTGCCACCATGTACCGG 347
Db 65 GlnCysLysLysHisAspGlyGlnValGluIleSerSerCysThrValAspArgAspThr 84
QY 348 AAATCGAGTGCCAAATAGGTCTTTAC-----TACTATGACCCCAAAATTTCCGGAATCATGC 404
Db 85 ValCysGlyCysArgLysAsnGlnTyrArgHisTyrAspHisGluAsnArgPheTyrCys 104
QY 405 CGCCCATGTACCAAGTGTCCCAAGGAATCCCTGTCTCCAGGAATGCAACTCCACAGCT 464
Db 105 PheAsnCysSerLeuCysLeuAsnGly-----ThrValHisLeuSerCysGlnGluLysGln 123

QY 465 AACACTGTGTGCAGT 479
Db 124 AsnThrValCysThr 128
RESULT 12
US-10-218-102-423
; Sequence 423, Application US/10218102
; Publication No. US20030130827A1
; GENERAL INFORMATION:
; APPLICANT: Bentzien, Joerg
; APPLICANT: Dahiyat, Bassil I.
; APPLICANT: Desjarlais, John R.
; APPLICANT: Hayes, Robert J.
; APPLICANT: Vielmetter, Jost
; TITLE OF INVENTION: Protein Design Automation for Protein Libraries
; FILE REFERENCE: A-67229-11/RFT/RMS/RMK
; CURRENT APPLICATION NUMBER: US/10/218,102
; CURRENT FILING DATE: 2002-08-12
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: US 09/927,790
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: US 60/311,545
; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: US 60/324,899
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US 60/351,937
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: US 60/352,103
; PRIOR FILING DATE: 2002-01-25
; NUMBER OF SEQ ID NOS: 432
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 423
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic
US-10-218-102-423

Alignment Scores:
Pred. No.: 1.25e-12 Length: 162
Score: 213.50 Matches: 44
Percent Similarity: 47.20% Conservative: 15
Best Local Similarity: 35.20% Mismatches: 59
Query Match: 7.90% Indels: 7
DB: 9 Gaps: 4

US-09-855-266A-3 (1-1509) x US-10-218-102-423 (1-162)

QY 123 TGTCCCGATGGTGAATAC-----CAGTCTAATGATGCTGTGTCAGACCTGTGCC 173
Db 5 CysProGlnGlyLysTyrIleHisProGlnAsnAsnSerIleCysCysThrLysCysHis 24
QY 174 TCAGTACATTTGTCAAGCGCCCTGCAAAATCCCATCTACTCAAGGACAATGTGAGAAG 233
Db 25 LysGlyThrTyrLeuTyrAsnAspCysProGlyProGlyGlnAspThrAspCysArgGlu 44
QY 234 TGTCAACCCAGGAACATTCACAGGAAAGATATGCGCTGCATGATTGTGAACCTTGTCTCC 293
Db 45 CysGluSerGlySerPheThrAlaSerGluAsnHisLeuArgAspCysLeuGlnCysSer 64
QY 294 ACCTGTGATAAGACCAAGATATGTG-----GCTGACTGTCTGCCACCATGTACCGG 347
Db 65 GlnCysLysLysHisAspGlyGlnValGluIleSerSerCysThrValAspArgAspThr 84
QY 348 AAATCGAGTGCCAAATAGGTCTTTAC-----TACTATGACCCCAAAATTTCCGGAATCATGC 404
Db 85 ValCysGlyCysArgLysAsnGlnTyrArgHisTyrAspHisGluAsnArgPheTyrCys 104
QY 405 CGCCCATGTACCAAGTGTCCCAAGGAATCCCTGTCTCCAGGAATGCAACTCCACAGCT 464
Db 105 PheAsnCysSerLeuCysLeuAsnGly-----ThrValHisLeuSerCysGlnGluLysGln 123
QY 465 AACACTGTGTGCAGT 479

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Db 124 AsnThrValCysThr 128
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RESULT 13
US-09-855-266A-13
; Sequence 13, Application US/09855266A
; Patent No. US20020128435A1
; GENERAL INFORMATION:
; APPLICANT: Kimura, Naoki
; APPLICANT: Toyoshima, Tomoko
; TITLE OF INVENTION: NOVEL SECRETORY MEMBRANE PROTEIN
; FILE REFERENCE: 06501-040002
; CURRENT APPLICATION NUMBER: US/09/855,266A
; PRIOR FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 09/411,722
; PRIOR FILING DATE: 1999-10-01
; PRIOR APPLICATION NUMBER: PCT/JP98/01511
; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: JP 9/099653
; PRIOR FILING DATE: 1997-04-01
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 123
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-855-266A-13

Alignment Scores:
Pred. No.: 123 Length: 123
Score: 212.50 Matches: 45
Percent Similarity: 46.03% Conservative: 13
Best Local Similarity: 35.71% Mismatches: 57
Query Match: 7.86% Indels: 11
DB: 10 Gaps: 5

US-09-855-266A-3 (1-1509) x US-09-855-266A-13 (1-123)
QY 123 TGTCCCGATGTTGAATAC-----CAGTCTAATGATGCTGTGTCAGACCTGTGCC 173
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Db 1 CysProGlyGlyLysTyrValHisSerLysAsnSerIleCysCysThrLysCysHis 20
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 174 TCAGGTACATTTGTCAGGCGCCCTGCAAAATCCCAATCTCAAGGCAATGTGAGAG 233
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 21 LysGlyThrTyrLeuValSerAspCysProSerProGlyArgAspThrValCysArgGlu 40
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 234 TGTCAACCCAGCAATTCACAGGCAAGATATGCGCTGCATGATGTGAACTTTGCTCC 293
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 41 CysGluLysGlyThrPheThrAlaSerGlnAsnTyrLeuArgGlnCysLeuSerCysLys 60
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 294 ACCTGTGATAAAGACCAAGATATGTTG-----GCTGACTGTTCTGCCACCACTGACCCGG 347
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 61 ThrCysArgLysGluMetSerGlnValGluLeuSerProCysGlnAlaAspLysAspThr 80
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QY 348 AATGCGAGTGC-----CAATAGGTCTTACTACTATGACCCAAATTTCCGGAA 398
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Db 81 ValCysGlyCysLysGluAsnGlnPheGlnArgTyrLeuSerGluThrHisPhe----- 98
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QY 399 TCATGCGCCCATCTACCAAGTGTCCCAAGAAATCCCTGCTCCAGGAATGCAACTCC 458
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Db 99 GlnCysValAspCysSerProCysPheAsnGly---ThrValThrIleProCysLysGlu 117
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QY 459 ACAGTAACACTGTGTGC 476
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Db 118 ThrGlnAsnThrValCys 123
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RESULT 14
US-09-798-789-15
; Sequence 15, Application US/09798789
; Patent No. US20020009780A1
; GENERAL INFORMATION:
; APPLICANT: Dahiyat, Bassil
; APPLICANT: Filikov, Anton
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; PRIOR FILING DATE: 2001-09-10
; PRIOR APPLICATION NUMBER: US 60/324,899
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US 60/351,937
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: US 60/352,103
; PRIOR FILING DATE: 2002-01-25
; NUMBER OF SEQ ID NOS: 432
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 425
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic
US-10-218-102-425

Alignment Scores:
Pred. No.: 5,02e-12 Length: 162
Score: 207.50 Matches: 43
Percent Similarity: 48.00% Conservative: 17
Best Local Similarity: 34.40% Mismatches: 58
Query Match: 7.67% Indels: 7
DB: 16 Gaps: 4

US-09-855-266A-3 (1-1509) x US-10-218-102-425 (1-162)

QY	123	TGTCGGATGTTGTAATAC-----CAGTCTAATCATCTGTGTCAAGACCTGTCCC	173
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QY	174	TCAGGTACATTTGTCAAGCGCCCTGCAAAATCCCATCTCAAGGACAAATGTGAGAAG	233
Db	25	LysGlyThrTyrLeuTyrAsnAspCysProGlyProGlyGlnAspThrAspCysArgGlu	44
QY	234	TGTCACCCAGGACATTCACAGGAAAGATAATGGCTGCATGATTGTGAACCTTGCTCC	293
Db	45	CysGluSerGlySerPheThrAlaSerGluAsnTripleuArgCysLeuLeuCysSer	64
QY	294	ACCTGTGATAAGACCAAGATATGGTG-----GCTGACTGTCTGCCACCACTGACCGG	347
Db	65	LysCysArgLysGluGluGlyGlnValGluIleSerSerCysThrValAspArgAspThr	84
QY	348	AAATGCGAGTGCATAGTCTTTAC---TACTATGACCCAAAATTCGCGAATCATGC	404
Db	85	ValCysGlyCysArgLysAsnGlnTyrArgHisTyrTrpSerGluAsnLeuPheGlnCys	104
QY	405	CGCCCATGTACCAAGTGTCCCAAGGAATCCCTGCTCTCCAGGAATGCAACTCCACAGCT	464
Db	105	PheAsnCysSerLeuCysLeuAsnGly---ThrValHisLeuSerCysGlnGluLysGln	123
QY	465	AACACTGTGTGCAGT	479
Db	124	AsnThrValCysThr	128

Search completed: August 20, 2003, 13:54:15
Job time : 71 secs